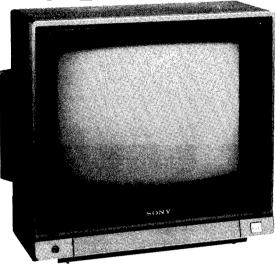
SERVICE MANUAL

AEP Model Chassis No. SCC-507A-A



XE-2 CHASSIS

August, 1983

SPECIFICATIONS

Television system Color system Zweiton system

Channel coverage

Two-carrier system VHF channels E2-U20 UHF channels E21-E68

Programing system

30 programs

PAL

Picture tube

Automatic programing digital tuning Approx. 52 cm (20 inches)

100-degree deflection Trinitron system

(Approx. 49 cm screen measured diagonally

CCIR TV standards (system B, G and H)

75-ohm standard antenna socket

(DIN45325/IEC169-2)

Audio output Inputs

Antenna

5 W + 5 W (with 10% harmonic distortion)

AV connector (6-pin DIN)

Video input: 1.0V p-p, impedance 75 ohms,

sync negative

Audio input: 0.1-2 Vrms

impedance more than 10 kilohms

Outputs AV connector (6-pin DIN)

Video output: 1.0 V p-p, impedance

75 ohms, sync negative Audio output: 0.1-2 Vrms impedance less than 1 kilohm Audio output connector (5-pin DIN) Recording output: 1 mVrms/kilohm Line output: variable, 0-2 Vrms (max.) impedance less than 1 kilohm

External speaker terminals (2-pin DIN)

For 4-8 ohm speakers Headphones jack (stereo phone jack)

220-240 V ac, 50 Hz

105 W (Approx. 11 W in standby condition)

Approx. $522 \times 502 \times 513$ mm (w/h/d)

Approx. 31 kg (68 lb 6 oz) Remote Commander RM-635

Optional accessories

Accessory supplied

Power requirements

Power consumption

Dimensions

Weight

OPK-102 SECAM adaptor

VMC-366 video monitor cable (6-pin to 6-pin) VMC-368 video monitor cable (6-pin to 8-pin) RK-140 connecting cord (6-pin to BNC and phono)

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV **TELETEXT** SONY



SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

NON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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SECTION 1 GENERAL

1-1. WARNING

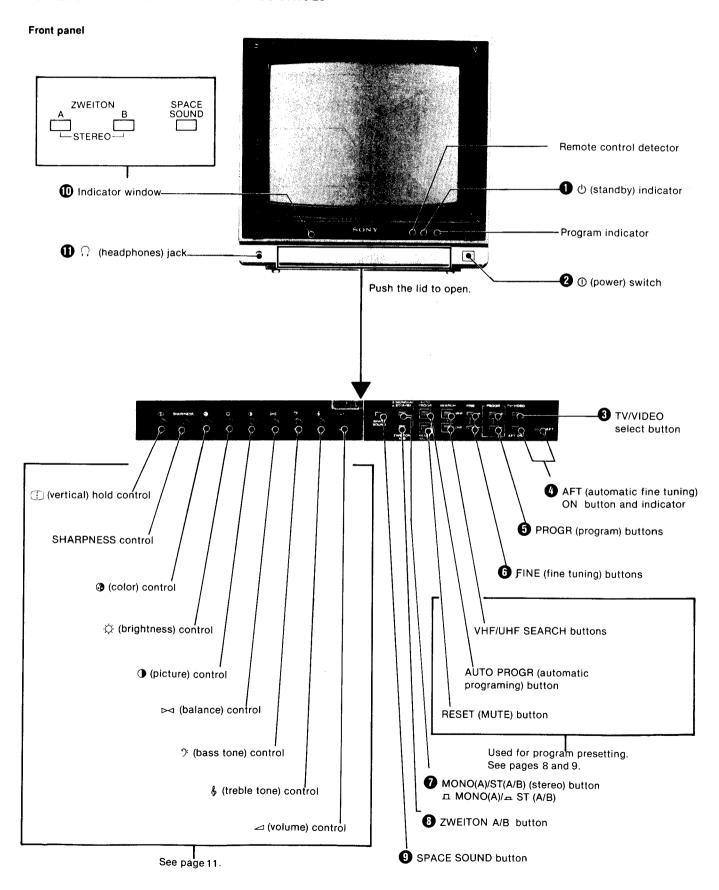
To prevent fire or shock hazard, do not expose the set to rain or moisture.

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

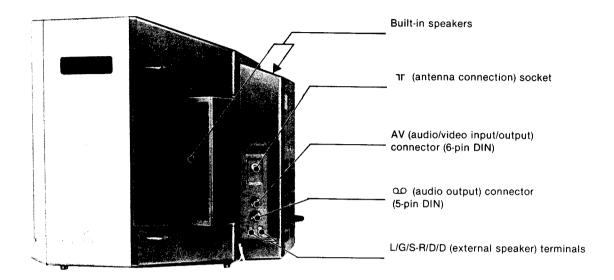
1-2. FEATURES

- Remote control color television with a multi-function Remote Commander
- Reception of all VHF and UHF channels based on CCIRTV standards and PAL color system
- Easy and stable tuning of up to 30 programs
- Two convenient systems of program presetting: automatic programing and manual programing
- Built-in Zweiton decoder for stereo sound and dual-sound program reception in West Germany
- Energy-saving quick start picture system
- Smoked glass over the screen for a glare-free picture with optimum contrast
- An optional OPK-103 teletext adaptor can be installed in the KV-2052EC. (For installation, consult your nearest Sony dealer.)
- SECAM color signals from East Germany can be received by installing an optional OPK-102 SECAM adaptor. (For installation, consult your nearest Sony dealer.)

1-3. LOCATION AND FUNCTION OF CONTROLS



Rear panel



① (standby) indicator

Lights up when the TV is turned off with the Remote Commander. When any of the buttons on the Remote Commander is pressed, this lamp blinks.

9 (power) switch

Press to turn the TV on. Press again to turn it off. When this switch is turned off, you cannot turn the power on with the supplied Remote Commander.

❸ TV/VIDEO select button

When playing back a video tape recorder without a 6-pin DIN connector, press this button so that "FU" lights in the program indicator. When playing back a recorder equipped with a 6-pin DIN connector, the video mode is automatically selected.

• AFT (automatic fine tuning) ON button and indicator

The AFT circuit activates automatically after the stations are tuned and memorized in automatic and manual programing.

The indicator will illuminate. In case you want to restore the AFT on the channel which has been fine-tuned manually with the FINE buttons press the AFT ON button.

9 PROGR (program) buttons

Press either + or - to select a preset program from positions 1 through 30. The selected program number will appear on the program indicator. Note that program 30 is "0" on the program indicator. Press + for higher-numbered programs, and - for lower-numbered programs. Programs will be changed continuously in sequence. If there is annoying noise at an unused program position, eliminate it by pressing the RESET (MUTE) button.

• FINE (fine tuning) buttons

Keep either + or - depressed to get a clear picture for each unsatisfactory channel. The automatic fine-tuning circuit will be automatically deactivated on the channel fine-tuned with these buttons.

MONO(A)/ST(A/B) (stereo) button □ MONO(A) □ ST(A/B)

Normally set this button to the depressed ST(A/B) position. Stereo programs and dual-sound program can be received.

When this button is not depressed, MONO(A) position, stereo programs wil be monaural and only channel A of a dual-sound program will be received.

3 ZWEITON A/B button

When the ST(A/B) is pushed in, dual-sound programs can be received. Select the language to be listened to — A or B — by pressing the ZWEITON A/B button.

SPACE SOUND button

Press to get special acoustic effects (for example, more presence). The SPACE SOUND indicator willI illuminate. To disengage, press it again.

Indicator window

a SPACE SOUND indicator

5 ZWEITON STEREO indicators

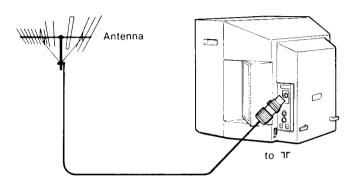
When a dual-sound program is received while the ST(A/B) button is pressed, A or B will light up. When a stereo program is received while the ST(A/B) button is pressed, A and B indicators will light up.

Connect headphones here. Speaker sound will be disconnected. If your headphones' plug does not fit the jack, use an optional plug adaptor.

1-4. CONNECTIONS

ANTENNA CONNECTION

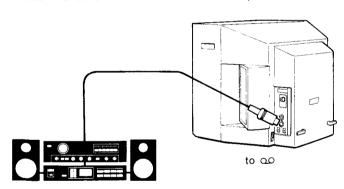
Good picture and sound are obtained when a proper antenna is used. Your TV receiver is equipped with a standard antenna connection socket, which is effective for both VHF and UHF reception. Use a coaxial antenna connection cable equipped with a single plug, and insert the plug into the TF (antenna connection) socket of your TV.



When a video tape recorder is to be connected to the Tr socket of the TV, connect an antenna to the recorder, as explained in "To enjoy video tape playback".

CONNECTION WITH AN AMPLIFIER

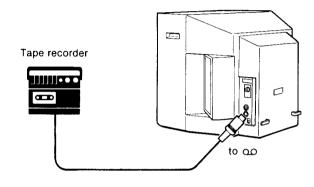
If you connect your stereo amplifier to the ∞ connector (5-pin DIN) using a suitable connecting cord, you can listen to the TV sound from the speakers of your audio system. The sound control settings on the TV and the Remote Commander will be operable.



Audio amplifier

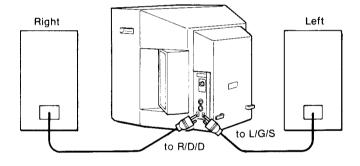
CONNECTION WITH A TAPE RECORDER

If you connect a tape recorder to the ∞ connector (5-pin DIN) using a suitable connecting cord, you can record the TV sound. In this case, the sound control settings on the TV and the Remote Commander have no effect on the recording.



CONNECTION WITH EXTERNAL SPEAKERS

Connect external speakers to the speaker terminals on the rear of the TV.



For further details, refer to the instructions furnished with the speakers.

Notes

- Keep the speaker system away from the TV, as the magnets in the speakers may affect the TV screen.
- Never connect a speaker system to an amplifier and this TV simultaneously, as this may damage the TV.

1-5. PROGRAM PRESETTING

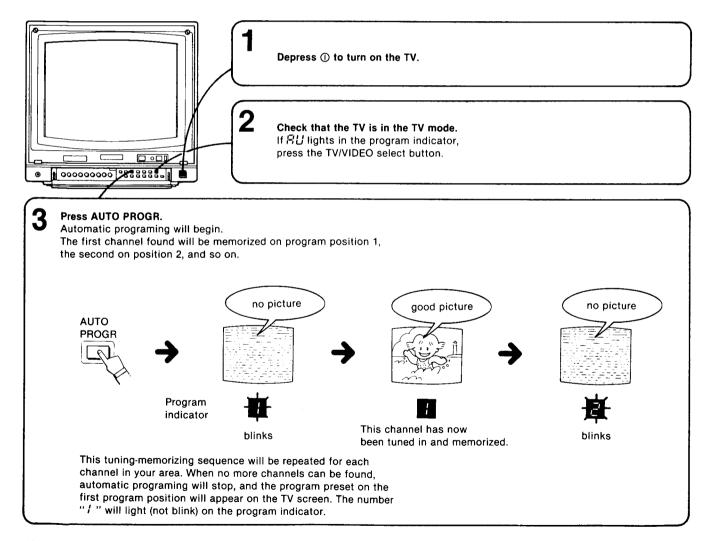
This TV has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGR buttons on the TV or the hand-held Remote Commander.

Preset programs by following one of these procedures; automatic programing or manual programing.

AUTOMATIC PROGRAMING

With the automatic programing system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.

If a channel you wish to preset is not strong enough to be preset with the automatic programing system, use the manual programing.



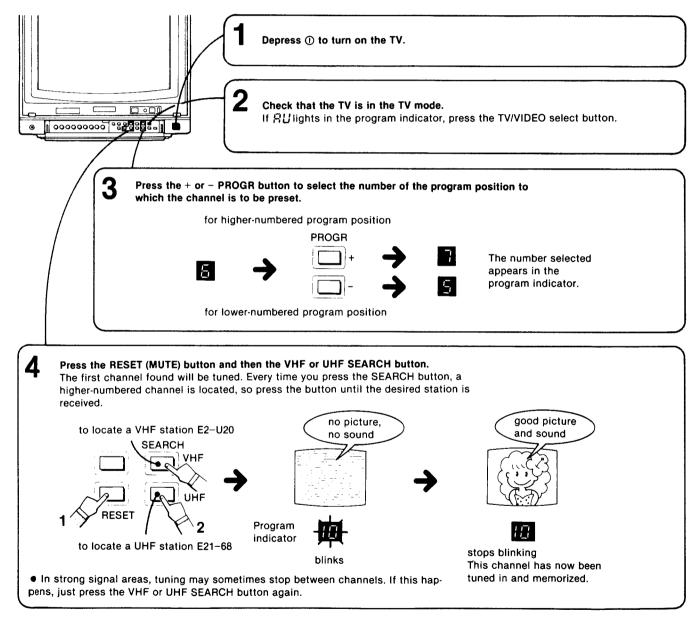
After presetting has been completed, press the PROGR buttons to check the results of the automatic programing, referring to your local TV listings.

To cancel automatic programing $\,$ while it is in progress, press the RESET (MUTE) button or the + or - PROGR button.

MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in a desired sequence.

Any channel can be set to any program position. Consult your local TV listings to find out the active channels in your area. Make a list of your desired VHF and UHF channels and arrange them in a desired sequence.



Repeat steps 3 and 4 for all the desired channels.

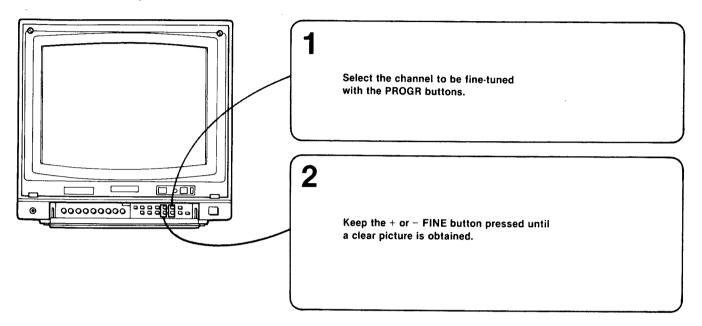
RESET (MUTE) button

If this button is pressed, the set will be automatically tuned to a frequency below channel E2.

If you want to skip a particular program position when scanning with the PROGR buttons on the Remote Commander, press the RESET (MUTE) button when the indicator shows that position.

FINE-TUNING OF A WEAK STATION

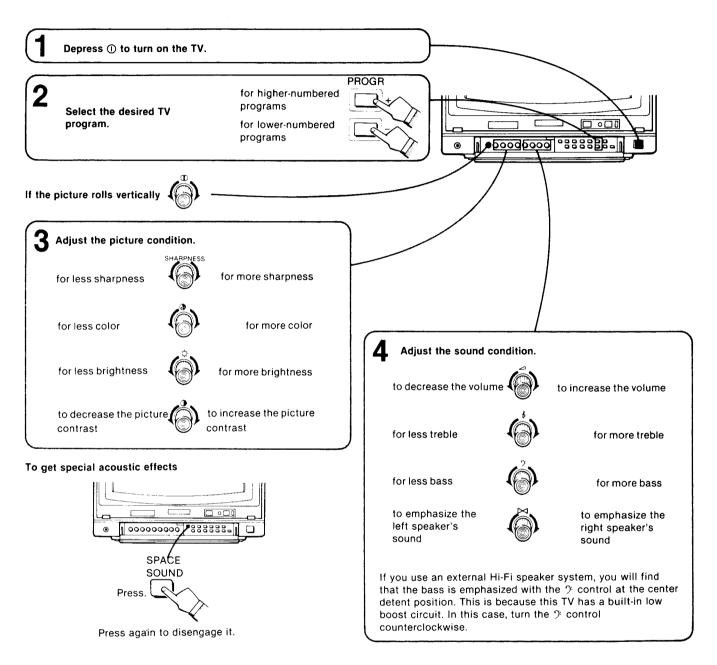
If you cannot obtain a clear picture on a particular channel, fine-tune that station manually with the ${\sf FINE}$ buttons.



When either of the FINE buttons is pressed, the AFT (automatic fine tuning) on the selected channel is deactivated and the AFT indicator turns off. To view the fine-tuned station, keep the AFT deactivated (do not press the AFT ON button).

When other memorized stations are selected, the AFT activates automatically.

1-6. BASIC OPERATION ON THE PANEL



This switch is especially effective when listening to music or a sports program. For instance, when you are listening to a piano concerto, the piano will be clearly heard from the center, and the orchestra, reverberation and applause will be heard as "surround" sounds.

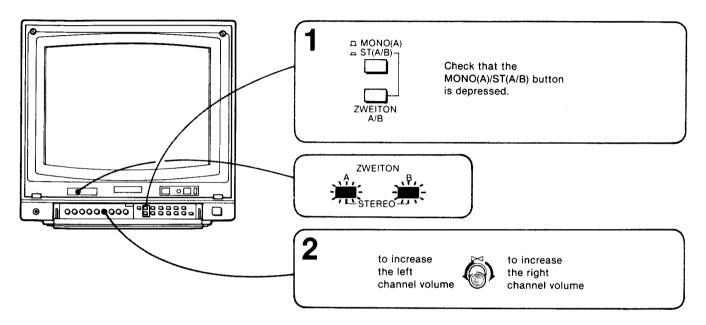
1-7. TO ENJOY STEREO AND DUAL-SOUND PROGRAMS

Check that the MONO(A)/ST(A/B) button is in the depressed ST(A/B) position.

When a stereo program is received, STEREO indicators light up.

The TV automatically operates in the stereo mode when a stereo program is received.

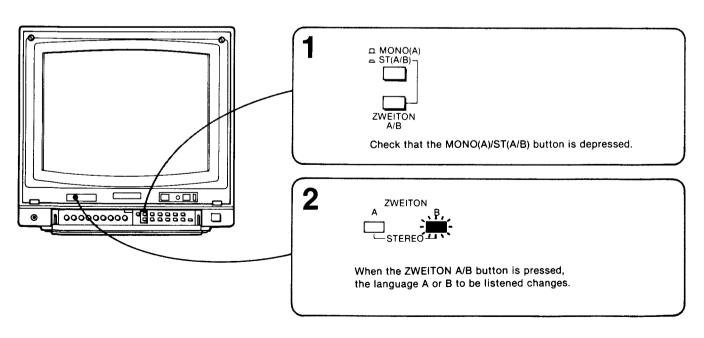
If necessary, adjust the stereo balance with the \bowtie control to obtain the optimum stereo effect.



Check that the MONO(A)/ST(A/B) button is in the depressed ST(A/B) position.

When a dual-sound(bilingual) program is received, either A or B indicator lights up.

Select the local language (usually broadcast on channel A) or the original language (usually broadcast on channel B) by pressing the ZWEITON A/B button on the TV or the A/B button on the Remote Commander.

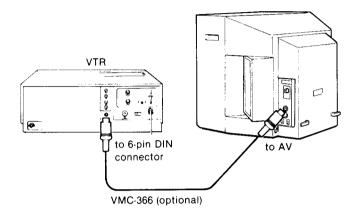


1-8. TO ENJOY VIDEO TAPE PLAYBACK

USING THE AV CONNECTOR (6-PIN DIN)

With a recorder equipped with a 6-pin DIN connector

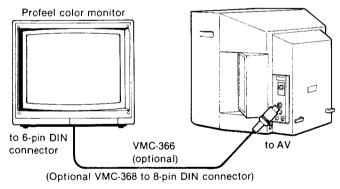
Connection



Operation

Turn on the TV and the recorder. When the recorder is set into the playback mode, the TV will be set into the video mode automatically and the playback picture will appear on the TV screen.

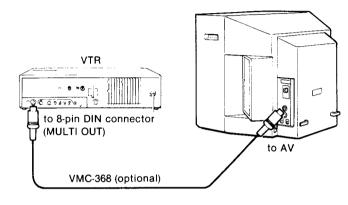
With a color monitor



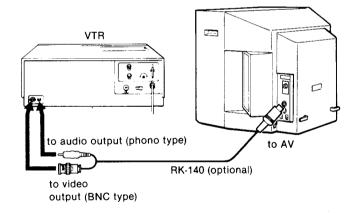
It is possible to view the same TV program on the monitor connected to the AV.

With a recorder without a 6-pin DIN connector

Connection Example 1:



Example 2:



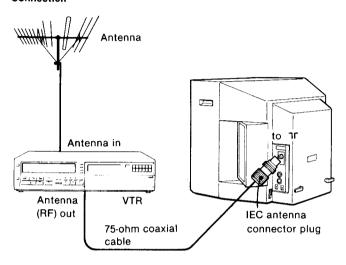
Operation

Turn on the TV and the recorder. Press the TV/VIDEO select button on the TV or the VIDEO button on the Remote Commander so that SU lights in the program indicator. The TV is then set into the video mode. Play the tape back.

USING THE ANTENNA CONNECTION SOCKET

With a recorder equipped with an RF modulator

Connection



Keep a VTR away from the TV, if the display or sound is affected.

Operation

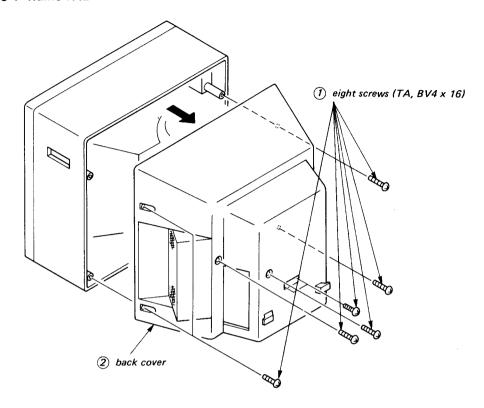
Preset one of the program positions of the TV to the output signal of the recorder as follows.

- 1 Turn on the TV and recorder.
- 2 Be sure that the TV is in the TV mode.
- 3 Set the TEST SIGNAL switch to ON if equipped with your recorder, or apply the output signal of the recorder to the TV by setting the recorder into the playback mode.
- 4 Select the program position to be set for the recorder with the PROGR buttons.
- **5** Push either of the SEARCH buttons. When the recorder output signal is found and memorized, the playback picture of the recorder will appear on the screen.

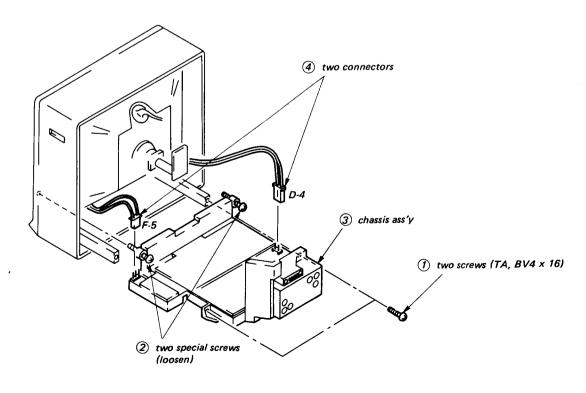
For operation of the recorder, refer to the instruction manual of the recorder.

SECTION 2 DISASSEMBLY AND REPLACEMENT

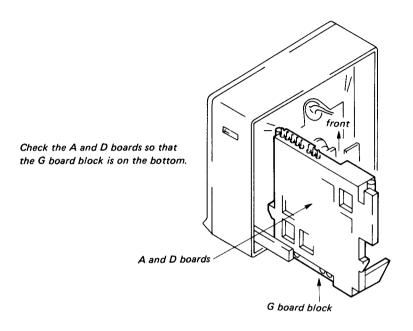
2-1. BACK COVER ASS'Y REMOVAL



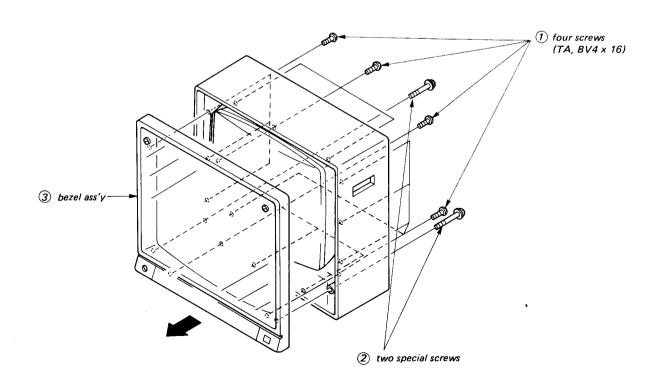
2-2. CHECKING FOR A AND D BOARDS UP (1) (CHASSIS ASS'Y REMOVAL)



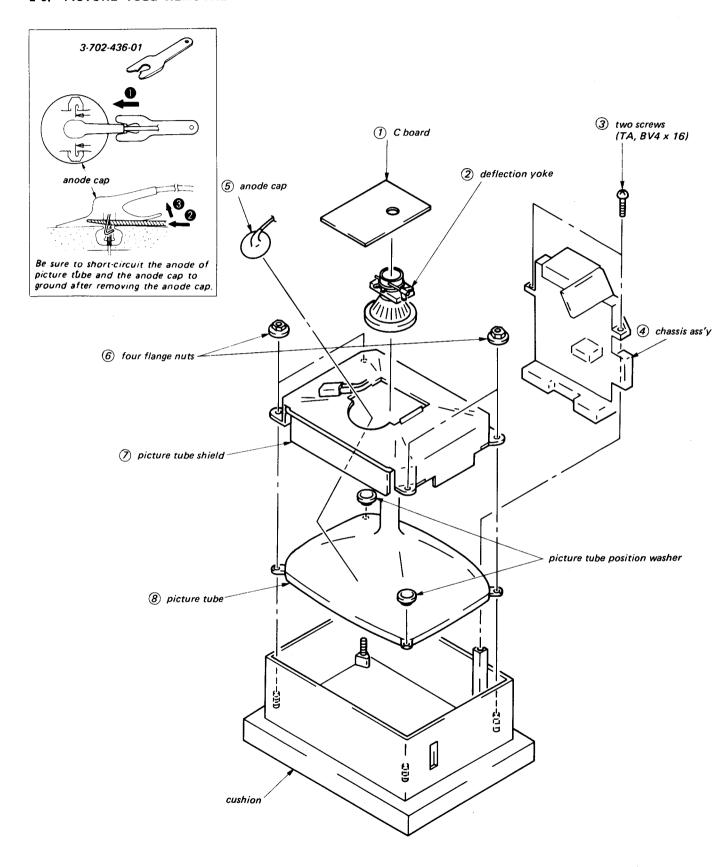
2-3. CHECKING FOR A AND D BOARDS UP (2)



2-4. BEZEL ASS'Y REMOVAL



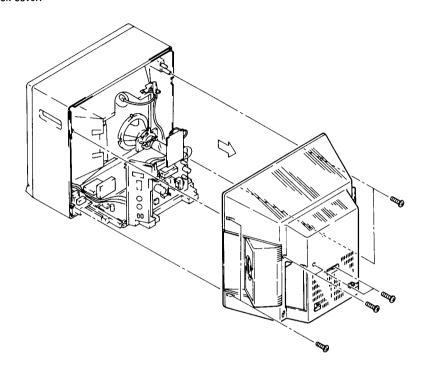
2-5. PICTURE TUBE REMOVAL



2-6. OPK-102 BOARD ATTACHING

Before installing OPK-102 unplug the set from the wall outlet. After the installation is completes, check that the TV operates properly.

1. Remove the back cover.

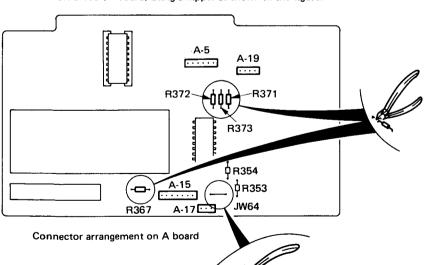


2. A BOARD REMODELING

- Cut off R371, R372, R373 and R367 using a nipper as shown in the figure.
- Cut off the jumper (JW64) using a nipper as shown in the figure.
- Change the resistance value of R353 and R354 (R353 3.9K, R354 8.2K).
- Cut off D409 (H board) using a nipper as shown in the figure.

3. OPK-102 change the resistance

 Change the resistance value of RV-3, R18 and R19. (RV-3 470K-B, R18 470K, R19 15K)

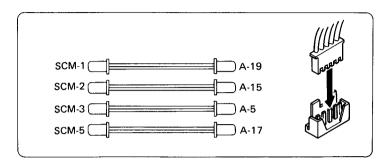




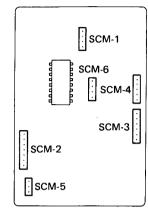
-18-

4. CONNECTOR CONNECTING

Connect the other end of the harness connected to the OPK-102 board to each connector
on the A and C boards, respectively, as shown in the figure below.
 (Refer to the connector arrangement on the A, C and OPK-102 boards.)



 Connect the other end of the harness connected to the OPK-102 board to each connector on the A and V boards, as shown in the figure below.

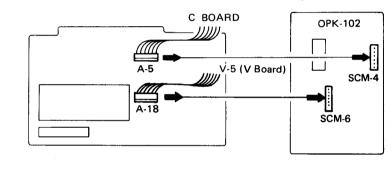


Disconnect and connect to SCM-4 and SCM-6.

Connector arrangement on OPK-102 board.

D409

H BOARD

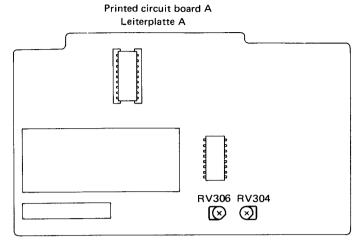


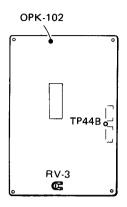


CRT SHIELD CASE

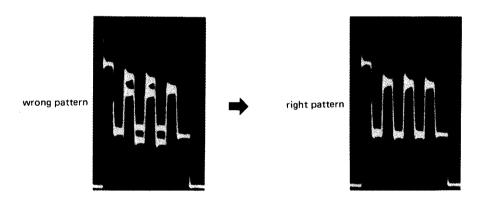


2-7. ADJUSTMENT

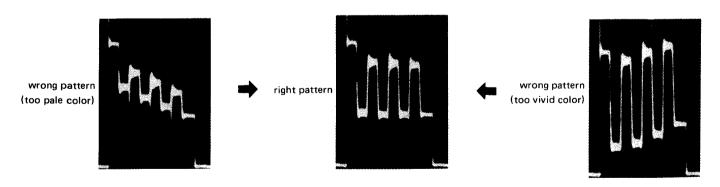




- 1. Plug the set to a wall outlet and turn on the power.
- 2. Connect the oscilloscope to the TP44B oscilloscope test pin on the OPK-102.
- 3. Select the SECAM color channel and adjust the color bar pattern (RV-3).



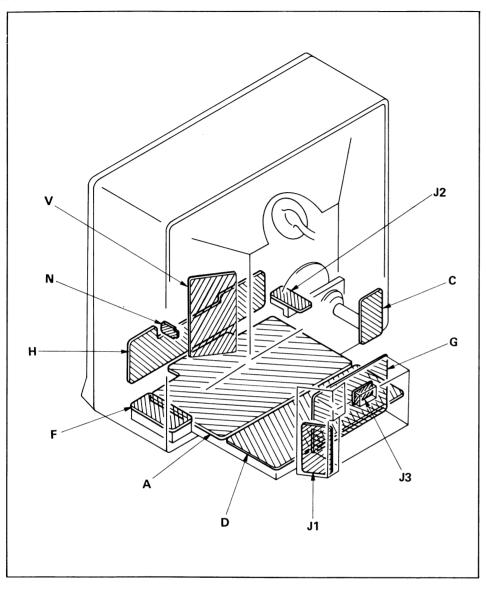
4. Select the PAL color channel and adjust the color bar pattern (RV-306).



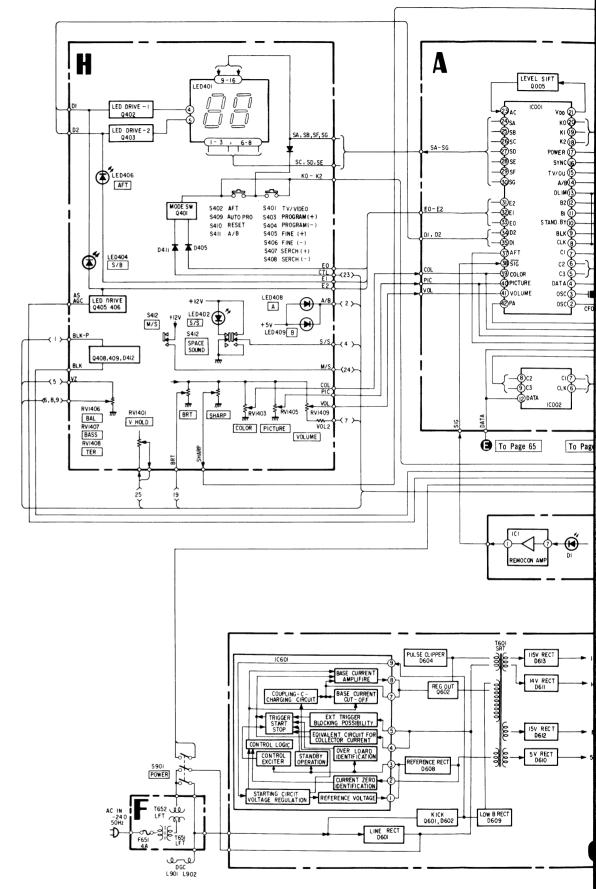
5. Attach the panels, etc. and adjust the 1 control and : control.

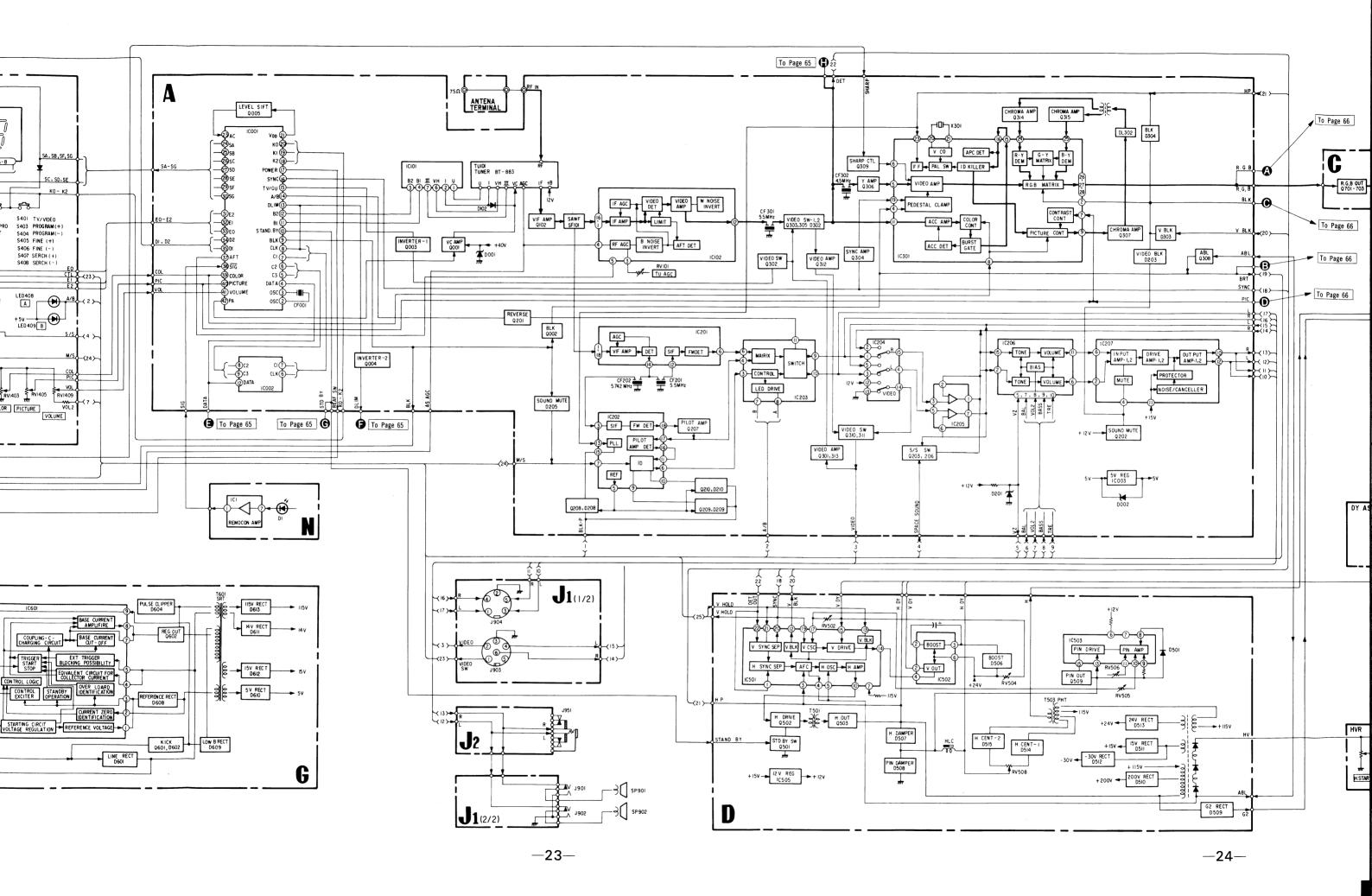
SECTION 3 DIAGRAMS

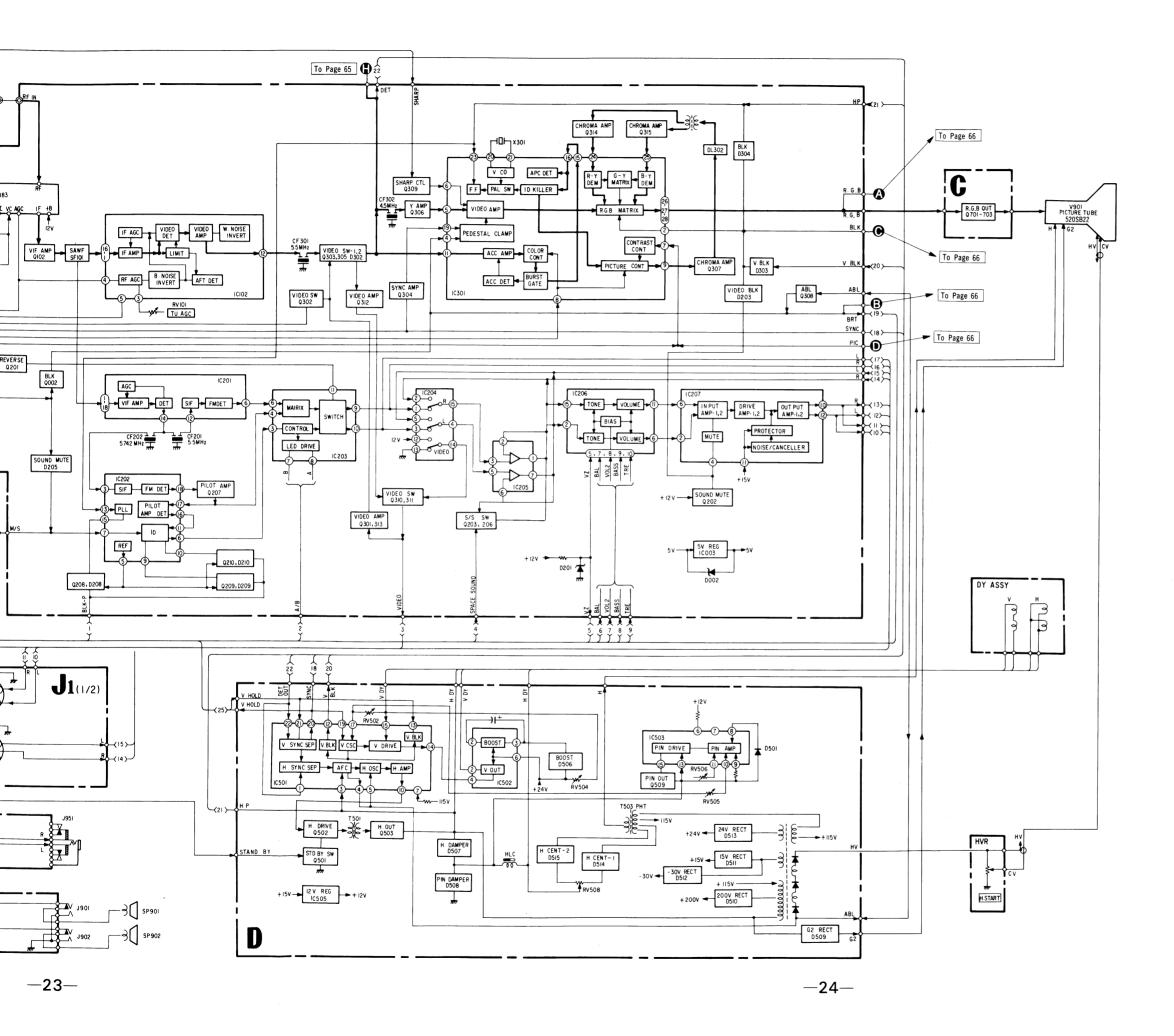
3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAM







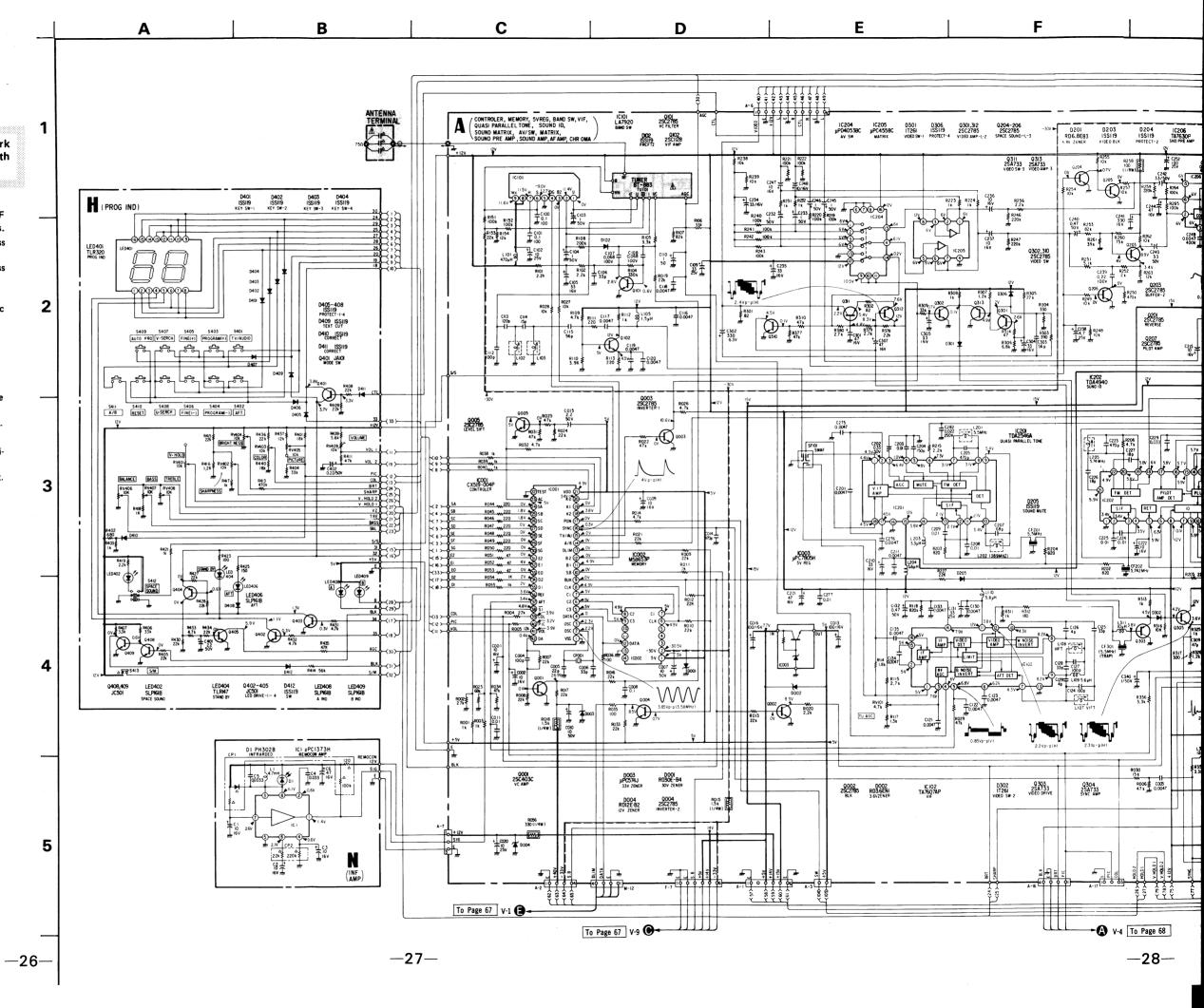
3-3. SCHEMATIC DIAGRAM

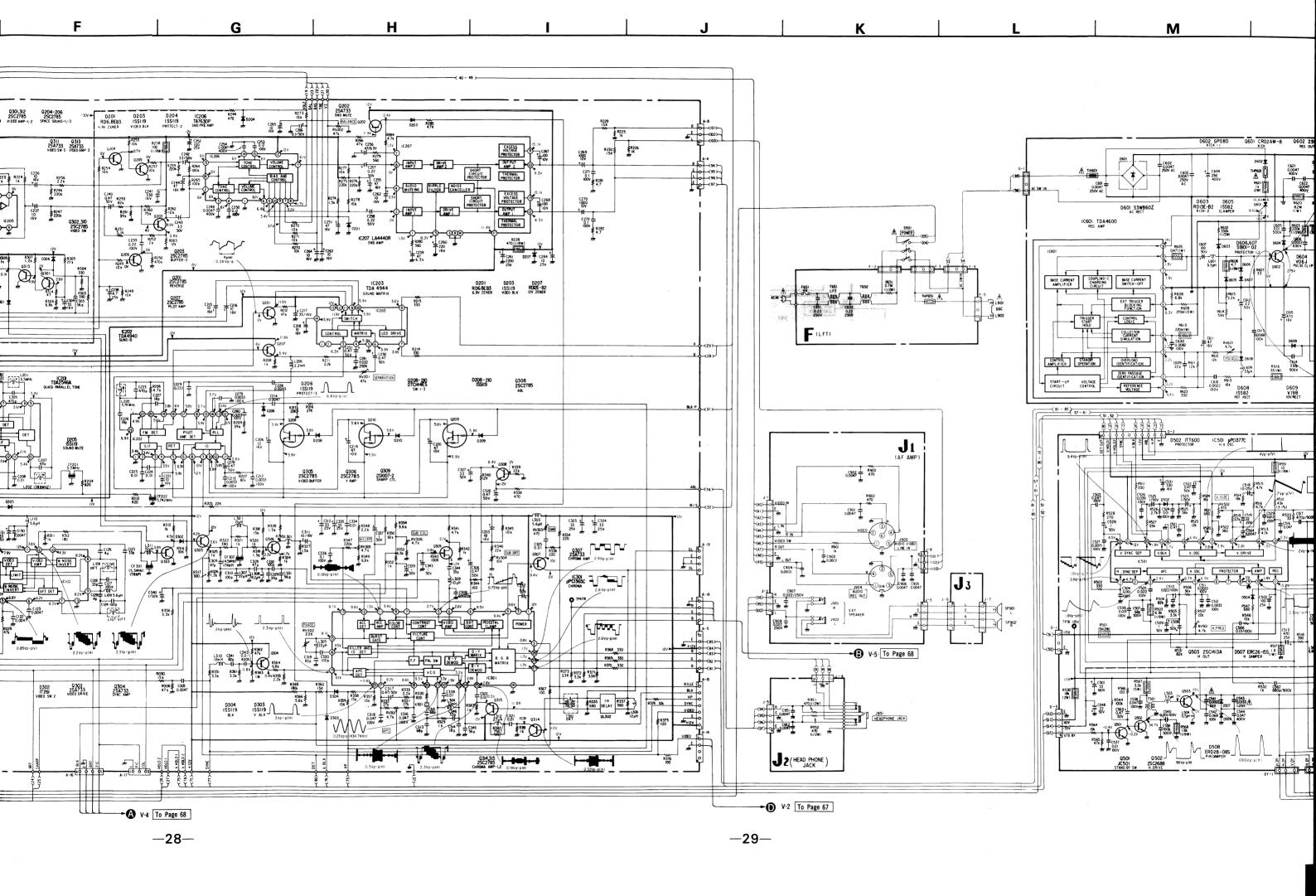
Note: The components identified by shading and mark

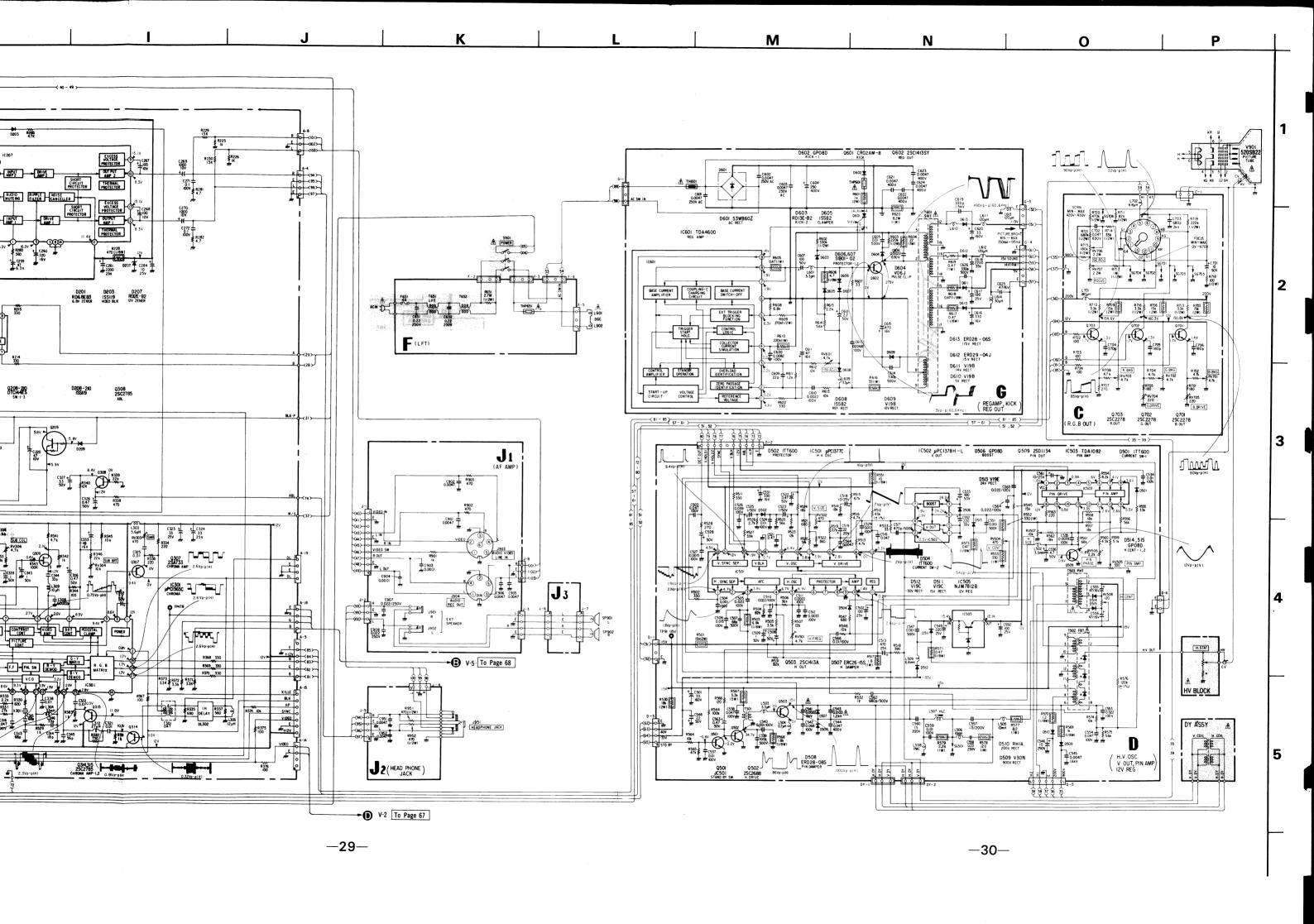
A are critical for safety. Replace only with part number specified.

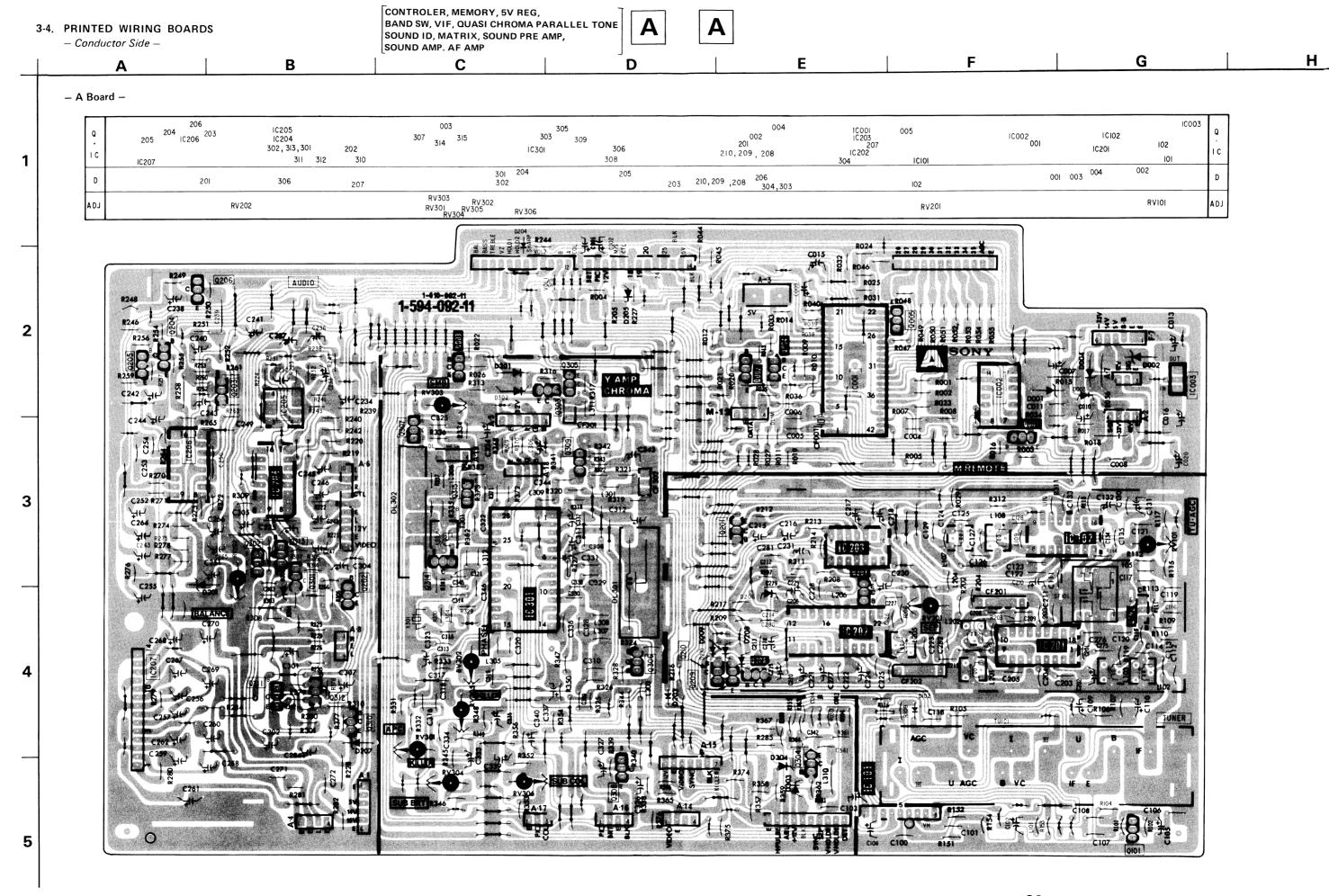
Note:

- All capacitors are in μF unless otherwise noted. p: μμF
 50WV or less are not indicated except for electrolytics.
- Resistors on the C, D, G boards are in ohms, ¼W unless otherwise noted.
- Resistors on the A, H, J1 boards are in ohms, 1/6W unless otherwise noted.
- $k\Omega$: 1000 Ω , $M\Omega$: 1000 $k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- fusible resistor.
- △ : internal component.
- panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a 10M-ohms-par-volt digital multimeter.
- Readings are taken with a PAL colour-bar signal input.
 : adjustment for repair.
- ---: B+ bus.
- ——: B- bus.









H-V OSC,
V OUT, PIN AMP,
12V REG

A B C D E F G

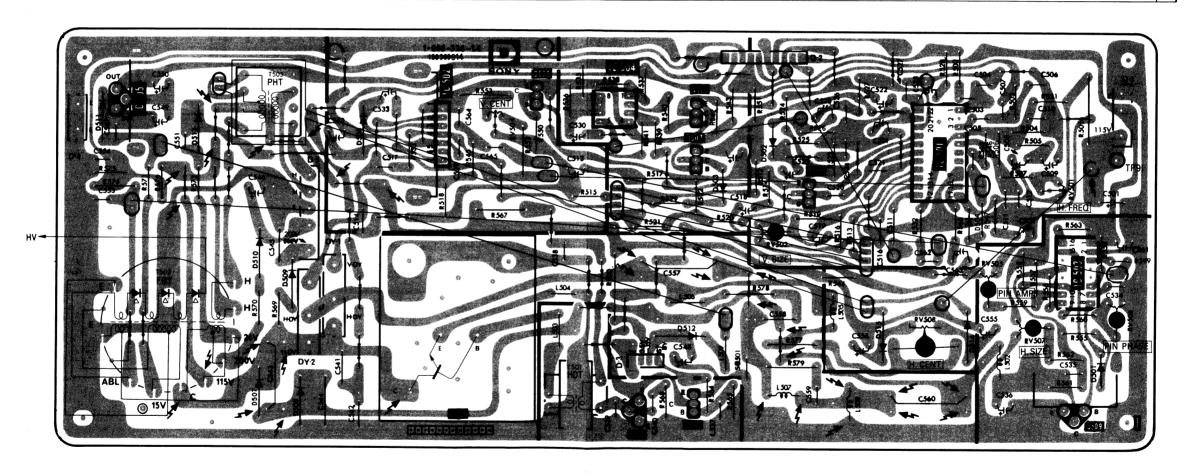
– D BOARD –

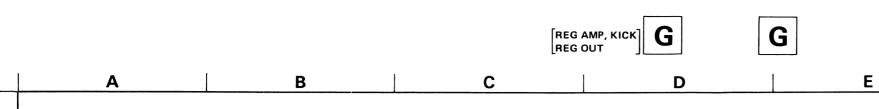
2

3

5

9	IC505					IC502					IC50	l			Q
IC						503	502	501						503 09	ic
D	511	513	510 507	509 508	506			512	502	515		504 514		501	D
ADJ						RV504			RV502		RV508	RV505	RV501 RV507	RV506	ADJ P91





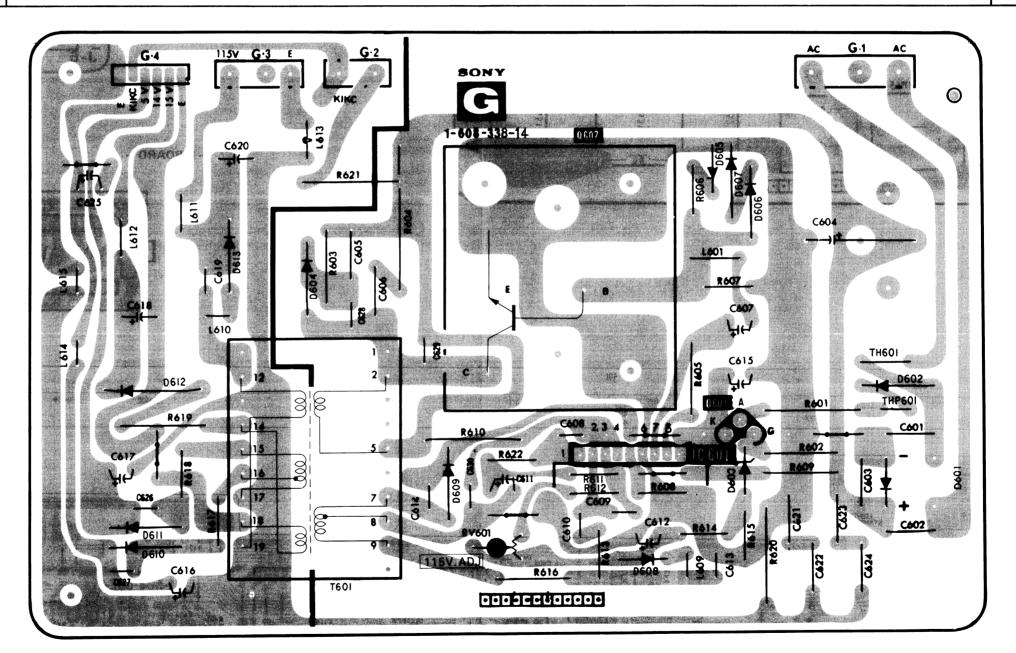
- G BOARD -

 IC, Q

 D
 612 611 613 613 604 609 609 608 603 603 604

 ADJ

 RV601



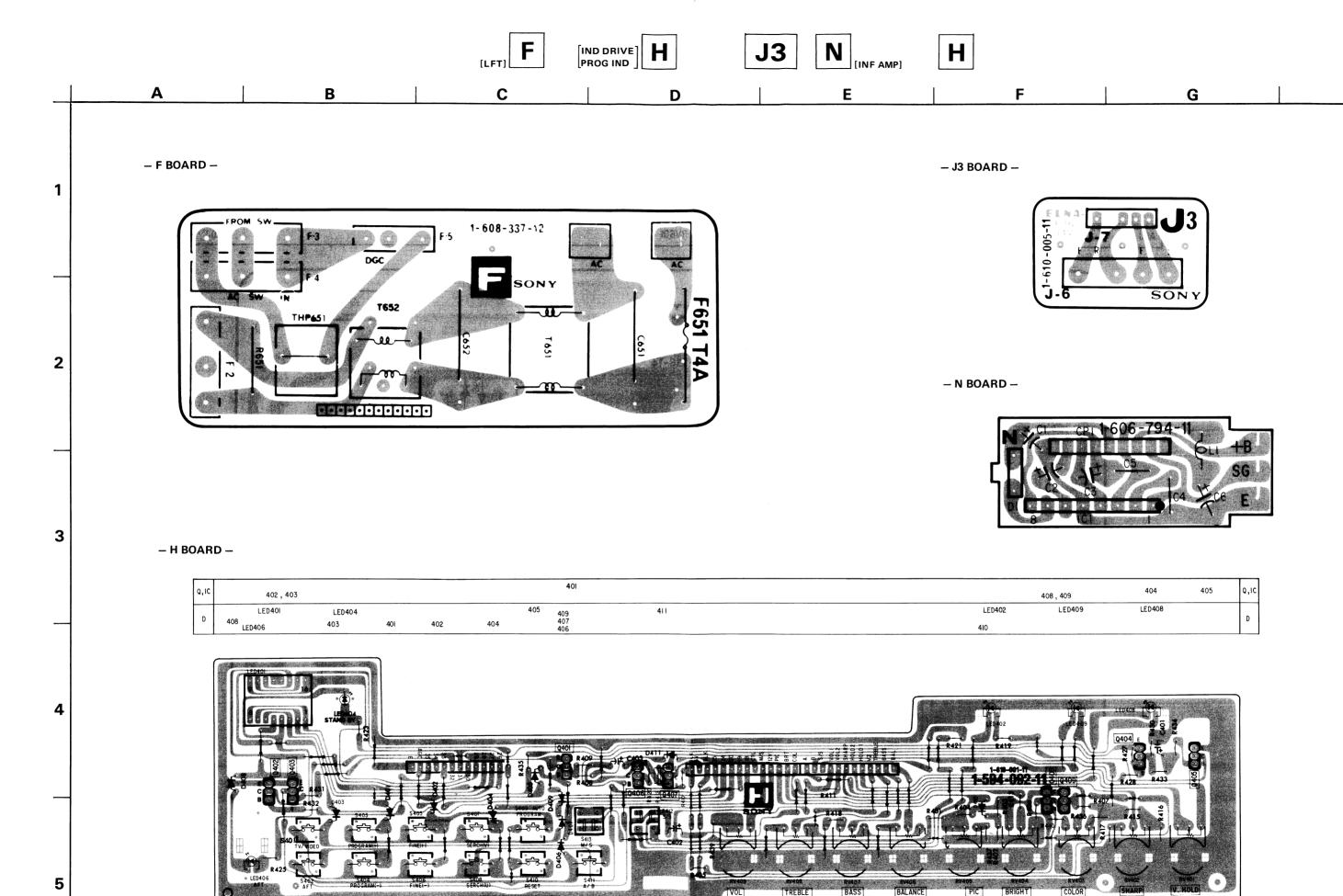
1

2

G

Н

F



-37-

-38-

Н

[AF AMP] J1

[HEAD PHONE JACK]

J2

В

C

D

– J1 BOARD –

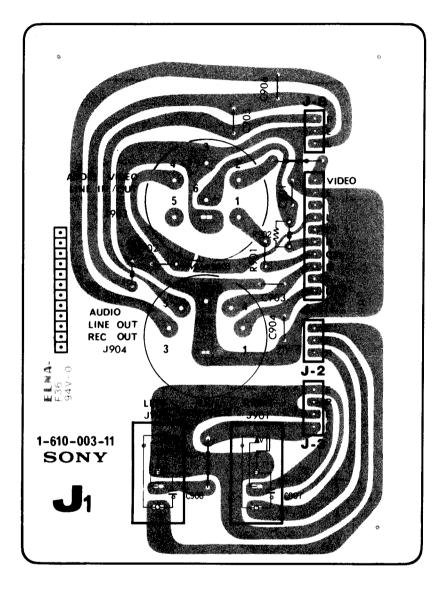
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2

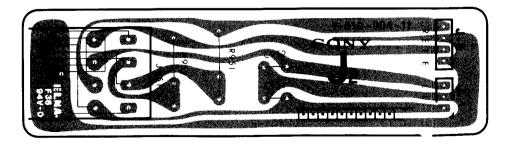
3

4

5



- J2 BOARD -





2

3

4

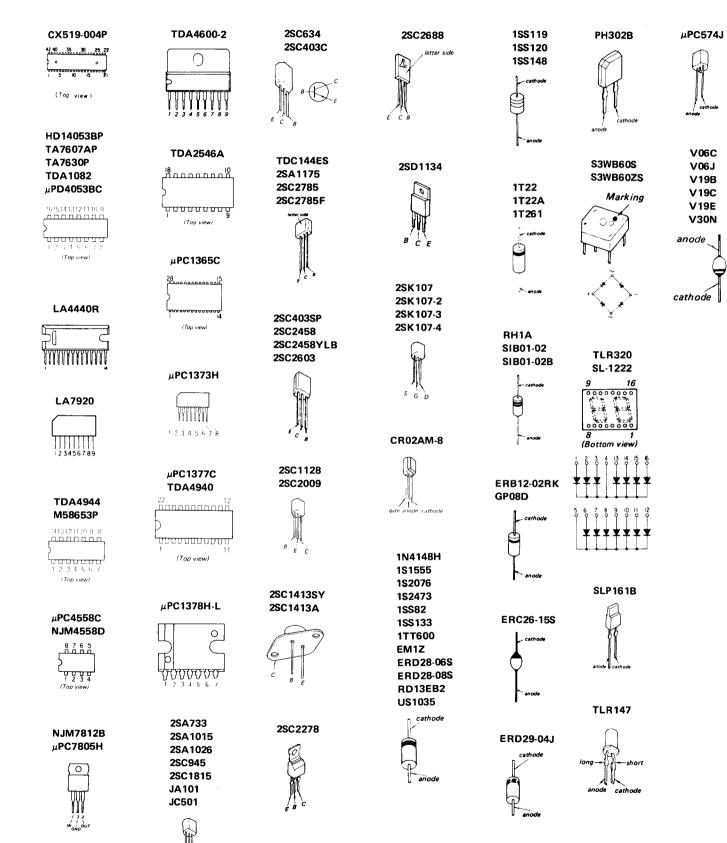
5

A B C D

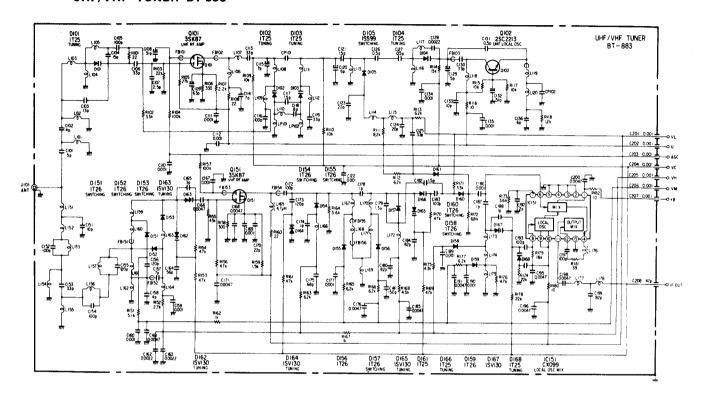
- C BOARD -

SG703 G2. ADJ

3-5. SEMICONDUCTORS



3-6. TUNER SCHEMATIC DIAGRAM -- UHF/VHF TUNER BT-883 --

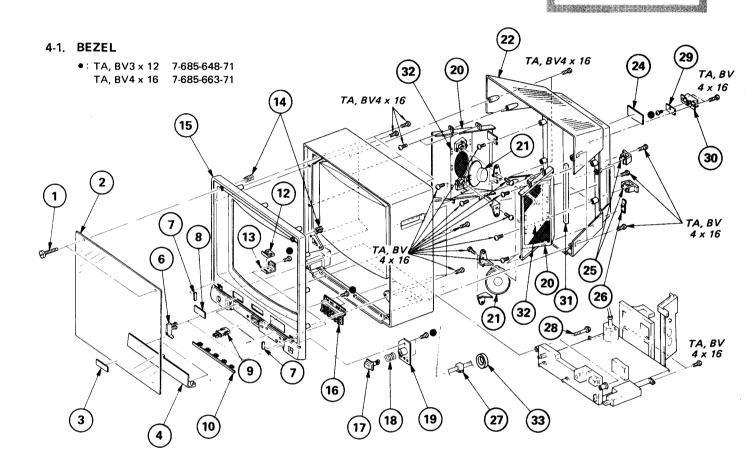


SECTION 4 **EXPLODED VIEWS**

- · Items with no part number and no des-
- cription are not stocked because they are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

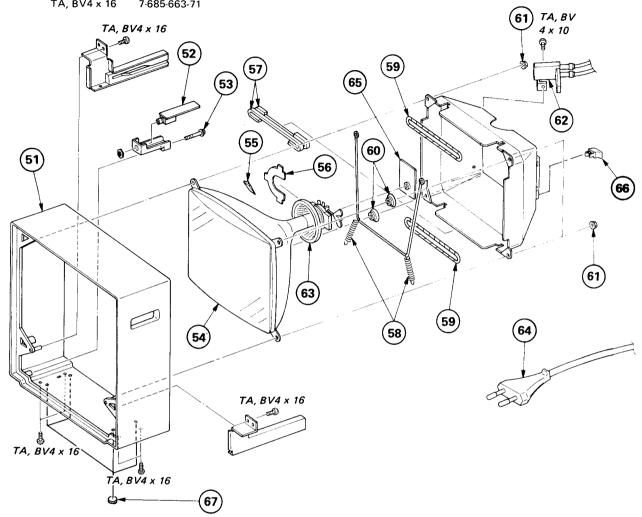
The components identified ne components laentified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remark	No.	Part No.	Description Remark
1	4-336-851-11	SCREW, ORNAMENTAL		18	4-362-278-00	SPRING, COMPRESSION
2	4-366-806-00	FILTER, GLASS		19	♦:4-362-206-00	HOLDER, POWER BUTTON
3		EMBLEM (LARGE) ASSY, SONY		20	X-4362-203-2	PLATE ÁSSY. BAFFLE. SPEAKER
4	4-362-225-11	DOOR, CONTROL		21	1-503-194-00	SPEAKER
6	4-362-203-00	SHAFT, DOOR		22	4-362-238-11	COVER, BACK
7	4-341-961-00	SHEET (S)		24	▲: 4-364-503-00	LABEL, MODEL NUMBER
8		PLATE, ORNAMENTAL, INDICATOR	1	25	4-316-003-00	HOLDEŔ, CORD
9	4-352-034-00	CATCHER, PUSH		26	4-329-127-00	CLAMP, CORD
10	♦:4-362-218-00	STRIP, ORNAMENTAL		27	A.4-022-115-01	HOLDER, AC CORD
12	4-336-808-00	PROTECTOR, FILTER		28		SCREW, SPECIAL (+PW4X30)
13	♦:4-362-201-00			29	∆ :1-610-005-00	J3 BOARD
14	4-357-414-00	NUT (M4X20)		30	4-357-437-00	COVER, TERMINAL, SPEAKER
15	X-4362-210-2		4 - 14	31	4-362-283-00	
16	4-362-221-11	BUTTON, MULTI		32	4-858-753-00	SHEET, DAMPER
17		BUTTON ASSY, POWER		33	1-543-179-00	RING, CORE

4-2. CABINET

TA, BV3 x 8 7-685-646-71 TA, BV4 x 10 7-685-660-71 TA, BV4 x 16 7-685-663-71

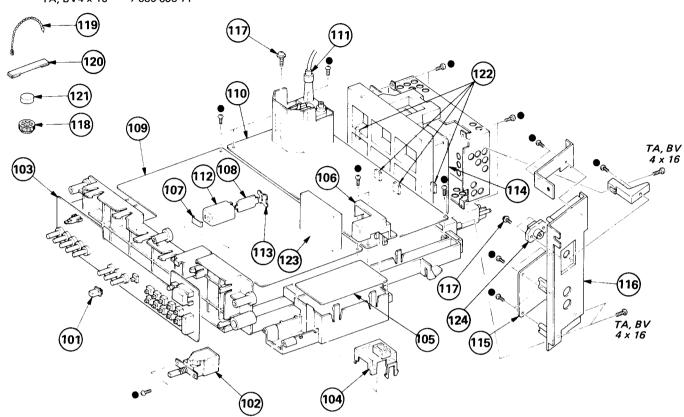


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
55 56 57 58	A-8-738-704-05 3-703-003-00 1-452-146-00 4-312-539-00 4-303-774-XX	J2 BOARD SCREW, SPECIAL (+PW4X30) CRT 520SB22 SPACER, DY MAGNET, BMC CUSHION (A), BEZEL		63 64	4-306-034-00 ★.1-228-714-21 ★.1-451-204-31 ★.1-551-270-31 ♦:A-1330-451-A	WASHER, CRT POSITION FLANGE NUT, (B) 5MM RESISTOR ASSY, HIGH-VOLTAGE DEFLECTION YOKE CORD, POWER C BOARD, COMPLETE HOLDER, PC BOARD FOOT, F	之一有實 不可能 不可能 不可能 可能 可能 可能 可能 可能 可能 可能 可能 可能 可能 可能 可能 可

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

4-3. CHASSIS

• : TA, BV3 x 12 7-685-648-71 TA, BV4 x 16 7-685-663-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
103 104 105 106 107 108 109 110	6:1-610-001-00 6:4-362-248-00 6:1-608-337-00 6:4-362-247-00 6:4-333-624-00 6:1-606-794-00 6:A-1295-769-A 6:A-1345-385-A	SWITCH, PUSH H BOARD COVER, POWER SWITCH F BOARD COVER, AC TERMINAL FILM (N), SPECIAL		113 114 115 116 117 118 119 120 121 122	■:4-342-118-00 ■:A-1245-189-A ■:1-610-003-00 4-362-242-01 4-304-496-00 1-452-094-00 4-308-870-00 X-4309-608-0 1-452-032-00 4-858-753-00	CASE, SHIELD (MAIN), R LID, SHIELD CASE, R G BOARD, COMPLETE J1 BOARD PANEL, CONNECTOR HEAD, WASHER, TAPPING SCREW MAGNET, ROTATABLE DISK; 15MM Ø CLIP, LEAD WIRE PERMALLOY ASSY, CONVERGENCE MAGNET, DISK; 10MM Ø SHEET, DAMPER TUNER, ET (BT-883) TERMINAL BOARD ASSY, ANTENNA	

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



SECTION 5 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS MF : און, PF : דענע

RESISTORS • All resistors are in ohms
• F : nonflammable

COILS • MMH : mH, UH : سH

Ref.N	o Part No.	Description			Remark	Ref		Remark			
•	6:1-608-337-00	F BOARD ******				C62: C62: C62:	3 1-161-738-00 4 1-161-738-00	CERAMIC CERAMIC	0.0047MF 0.0047MF 0.0047MF	20% 20% 20%	400V 400V 400V
0681 4		or analysis	John Bertill Tetherbroteinist		. Lakena Tar	C626			47MF 330PF	20% 10%	16V 500V
C652/	\.1-117-121-11 \.1-117-121-11	PAPER	0.22MF 0.22MF	20% 20%	250V 250V	C630	0 1-108-376-00) MYLAR	0.0082MF	10%	100V
	<u>co</u>	NNECTOR					DI	ODE			
F3 (:1-506-348-XX :1-506-348-XX :1-506-348-XX :1-508-765-00	3P PLUG (L) 3P PLUG (M) 3P PLUG (M)				D601 D602 D603 D604 D605	8-719-300-45 8-719-100-68 8-719-901-39	DIODE S3WB60 DIODE EM1Z DIODE RD13E- DIODE V06J DIODE 1SS83			
F651 <u>/</u>	1-532-350-11 1-533-149-00	- -	AG 4A E, F651		**************************************	D606 D607 D608 D609 D610	7 8-719-200-02 3 8-719-901-83 9 8-719-901-93				
		ANSFORMER				D611 D612 D613	8-719-900-26				
T651 A	1-4 21-352-11 1-4 21-592-00	TRANSFORMER,	FERRITE				<u>co</u>	NNECTOR			
		RMISTOR	Partition of the partition of		ere to proper to a	G1	♦:1-506-348-XX	3P PLUG (L)			
THD6 51	<u></u> 1-806-165-11		DOCTTIVE \			G3 G4	♦:1-508-765-00 ♦:1-560-126-00	PLUG, CONNEC	TOR (2.5MM)	6P	
444444		********					IC				
): A-1245-189-A		IPLETE	*****	******	IC 60	8-759-046-00 •:4-356-301-00	IC TDA4600), IC601		
	CAF	ACITOR			ĺ		<u>co</u>	IL			
C601 C602 C603 C604 C605	1-161-964-00 1-161-964-00 1-161-964-00 1-125-167-00 1-102-050-00	CERAMIC CERAMIC CERAMIC ELECT (BLOCK)	0.0047MF 0.0047MF 0.0047MF 250MF 0.01MF		250V 250V 250V 250V 400V 500V	L601 L609 L610 L611 L612	1-408-415-00 1-425-613-00 1-459-215-00	MICRO INDUCT MICRO INDUCT COIL, AIR-COI CORE COIL 12 CORE COIL 12	OR 33UH RE, QF TYPE OUH		
C606 C607 C609	1-129-706-00 1-124-025-00	ELECT	0.0022MF 100MF	10% 20%	630V 16V	L613 L614	1-459-215-00 1-459-407-00	CORE COIL 12	OUH E CHOKE 30U	Н	
C611	1-102-959-00 1-124-025-00		2 2 PF 100µF	5% 20%	50V 16V		TRA	ANSISTOR			
C612 C613 C614 C615 C616	1-123-353-00 1-108-375-00 1-102-030-00 1-123-323-00 1-123-322-00	MYLAR CERAMIC ELECT	2.2MF 0.0068MF 330PF 470MF 330MF	20% 10% 10% 20% 20%	50V 100V 500V 16V 16V	Q601 Q602		BUSHING (B), RETAINER (TO- LUG, GROUND,	SC1413-SY TR, Q602 -3), TRANSIS Q602	TOR, Q60	02
C617 C618 C619 C620 C621	1-123-333-00 1-123-350-00 1-102-327-00 1-123-024-00 1-161-738-00	ELECT ELECT CERAMIC ELECT	100MF 2200MF 330PF 33MF 0.0047MF	20% 20% 15%	25V 35V 1.5KV 160V 400V	R601 R602	♦:4-362-210-00	SHEET (TO-3), SISTOR METAL OXIDE	1K 5% 330K 5%	2W 1/2W	F
				•	1		, , , , , , , , , , , , , , , , ,	- min 1	300K 3/6	1/4M	

Ref.No Part No.	Description				Remark	l Dof N	No Part No.	Description			Remark
		0000	- ~	1 10	Kenark						<u>Kenark</u>
R603 1-244-929-00 R604 1-206-519-00	METAL OXIDE	220K 22	5% 5%	1/2W 3W	F		6: 1-560-124-00 6: 1-560-124-00				
R605 1~212~356~00 1~543~194~00	METAL OXIDE CORE, BEAD, R	0.47 605	5%	1W	F		CAP	ACITOR	`	·	
R606 1-246-981-00 R607 1-247-095-00	C ARBON	4.7 33	5% 5%	1/8W 1/4W	F	C001	1-123-356-00		1045	20%	164
	-		•	•		C002	1-123-356-00	ELECT	10MF 10MF	20% 20%	16V 16V
R608 1-215-172-00 R609 1-244-931-00		6.8K 270K	5% 5%	1/4W 1/2W		C003	1-102-125-00 1-102-973-00		0.0047MF 100PF	10% 5%	50V 50V
R610 1-215-811-00 R611 1-215-154-00		220K 1.2K	5%	1W 1/4W		C005	1-102-959-00		22PF	5%	50V
R612 1-215-178-00		12K	5%	1/4W		C006	1-102-963-00		33PF	5%	50V
R613 1-215-176-00		10K	5%	1/4W		C007	1-123-356-00 1-108-251-00	MYLAR	10MF 0.1MF	20% 5%	50V 50V
R614 1-215-170-00 R615 1-215-160-00		5.6K 2.2K	5% 5%	1/4W 1/4W		C009	1-123-356-00 1-123-356-00		10MF 10MF	20% 20%	16V 50V
R616 1-213-125-00 R617 1-247-636-00	METAL OXIDE	33 0.47	5%	1W	F F	İ				20%	
			5%	•		C011 C013	1-101-004-00 1-123-333-00	ELECT	0.01MF 100MF	20%	50V 16V
R618 1-247-636-00 R619 1-217-465-00		0.47 0.47	5% 5%	1/8W 1W	F F	C014 C015	1-102-114-00 1-123-353-00		470PF 2.2MF	10% 20%	50V 50V
R620 1-247-289-00 R622 1-215-140-00	C ARBON	8.2M 330	5% 5%	1W 1/4W		C016	1-123-333-00		100MF	20%	16 V
	-		J /o	1/4%		C020	1-123-356-00		10MF	20%	25V
	RIABLE RESISTOR	•				C100 C101	1-110-175-00 1-110-175-00		0.1MF 0.1MF	10% 10%	100V 100V
RV601 1-228-723-00		AMIC C	ARBON	4.7K		C102 C103	1-123-356-00 1-123-380-00		10MF 1MF	20% 20%	25V 50V
	NSFORMER	stat will				C104	1-123-380-00	ELECT	1MF	20%	50 V
T601A.1-421-560-12	TRANSFORMER,	FERRIT	E (SR	D HEAT		C105 C106	1-123-318-00 1-102-963-00		33MF 33PF	20% 5%	16V 50V
THE	RMISTOR					C107	1-110-173-00 1-110-173-00	MYLAR	0.068MF	10%	100V
TH601 A.1-800-820-1	2 THERMISTOR,	POWER			1.4.4 1.4.4				0.068MF	10%	100V
THP601 A. 1-806-449-2	and the programment of the sections	Spirit Service	a first at the same	the then a co	4.5	C109 C110	1-123-343-00 1-123-380-00		33MF 1MF	20% 20%	25V 50V
*********	******	*****	*****	*****	******	C112 C113		CERAMIC CERAMIC	100PF 120PF	5% 5%	50V 50V
♦: A-1295-769-A	A BOARD, COMP	LETE ****				C114	1-102-851-00		15PF	5%	50 V
4:1-555-706-00	CONNECTOD ACC	v 72 E	MM\ 10	30		C115	1-102-523-00		56PF	5%	50V
♦:4~362~292~00	LID, UPPER, S	HIELD (CASE,			C116 C117	1-102-125-00 1-102-125-00	C ERAMIC C ERAMIC	0.0047MF 0.0047MF	10% 10%	50V 50V
♦:4-362-293-00 ♦:4-362-294-00				VIF		C118 C119		CERAMIC CERAMIC	0.0047MF 0.0047MF	10% 10%	50V 50V
CON	INECTOR		_			C120	1-102-125-00		0.0047MF	10%	50V
		00 (0	5.ma\ .			C121	1-102-125-00	CERAMIC	0.0047MF	10%	50V
A1 1. -560-126-00 A2 1. -560-124-00	PLUG, CONNECT	OR (2.	5MM) 6 5MM) 4	ib Sh		C122 C123	1-102-125-00 1-102-125-00	CERAMIC	0.0047MF 0.0047MF	10% 10%	50V 50V
A3 \(\cdot : 1 - 5 08 - 786 - 0 0 \) A4 \(\cdot : 1 - 5 60 - 124 - 0 0 \)		OR (2.	5MM) 4	lp.		C124	1-102-529-00	CERAMIC	100PF	5%	50 V
A5 1-560-126-00						C125	1-102-518-00		33PF	5%	50V
A6 4:1-560-224-00		OR (2.	5MM) 1			C126 C127		CERAMIC	4PF 100PF	0.25PF 5%	50V
A7 6:1-560-123-00 A8 6:1-560-123-00	PLUG, CONNECT PLUG, CONNECT			BP BP	į	C128 C129	1-102-518-00 1-102-937-00		33PF 4PF	5% 0.25PF	50V 50V
A9 6:1-508-784-00 A14 6:1-560-124-00	1P PLUG PLUG, CONNECT	OR (2-	5MM PT	TCH)		C130	1-102-125-00		0.0047MF	10%	50V
A15 4: 1-560-127-00	•	•		•	ļ	C131	1-123-343-00	ELECT	33MF	20%	25V
A16 4:1-560-124-00		OR (2.	5MM PI	тсн)		C132 C133	1-123-379-00 1-102-125-00		0.47MF 0.0047MF	20% 10%	50V 50V
A17 4:1-560-123-00	PLUG, CONNECT	UK (2.	IY MMC	ICH)	į						

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



Ref.No Part No.	Description			Remark	Ref.No	Part No.	Description			Remark
C134 1-102-125-00 C135 1-102-125-00 C201 1-102-125-00 C202 1-123-286-00 C203 1-101-004-09	CERAMIC CERAMIC ELECT	0.0047MF 0.0047MF 0.0047MF 0.33MF 0.01MF	10% 10% 10% 20%	50V 50V 50V 50V 50V	C252 C253 C254 C255 C256	1-123-333-00 1-110-176-81 1-110-186-00 1-123-332-00 1-123-306-00	ELECT MYLAR MYLAR ELECT ELECT	100MF 0.12MF 0.0047MF 47MF 47MF	20% 10% 10% 20% 20%	25V 100V 400V 16V 6.3V
C204 1-101-361-00 C205 1-130-014-00 C206 1-123-356-00 C207 1-102-525-00 C208 1-101-004-00	FILM ELECT CERAMIC	150PF 470PF 10MF 68PF 0.01MF	5% 5% 20% 5%	50V 50V 16V 50V 50V	C257 C258 C259 C260 C261	1-123-447-00 1-123-447-00 1-123-306-00 1-123-321-00 1-123-338-00	ELECT ELECT ELECT ELECT ELECT	0.22MF 0.22MF 47MF 220MF 2200MF	20% 20% 20% 20% 20%	50V 50V 6.3V 16V 25V
C209 1-101-004-00 C210 1-123-318-00 C211 1-102-125-00 C212 1-108-371-00 C213 1-108-371-00	ELECT CERAMIC MYLAR	0.01MF 33MF 0.0047MF 0.0033MF 0.0033MF	20% 10% 10% 10%	50V 16V 50V 100V 100V	C262 C263 C264 C265 C266	1-123-356-00 1-123-356-00 1-123-356-00 1-123-356-00 1-123-586-00	ELECT ELECT ELECT ELECT ELECT	10MF 10MF 10MF 10MF 0.1MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 50V
C214 1-102-125-00 C215 1-123-356-00 C216 1-123-356-00 C217 1-123-318-00 C218 1-123-356-00	ELECT ELECT ELECT	0.0047MF 10MF 10MF 33MF 10MF	10% 20% 20% 20% 20%	50V 16V 16V 16V 16V	C267 C268 C269 C270 C271	1-123-307-00 1-123-307-00 1-123-311-00 1-123-311-00 1-110-175-00	ELECT ELECT ELECT ELECT MYLAR	100MF 100MF 1000MF 1000MF 0.1MF	20% 20% 20% 20% 10%	10V 10V 10V 10V 100V
C219 1-123-306-00 C220 1-123-306-00 C221 1-123-332-00 C222 1-123-356-00 C223 1-130-014-00	ELECT ELECT ELECT	47MF 47MF 47MF 10MF 470PF	20% 20% 20% 20% 5%	10V 10V 16V 16V 50V	C272 C275 C276 C277 C278	1-110-175-00 1-102-125-00 1-102-125-00 1-101-004-00 1-123-379-00	MYLAR CERAMIC CERAMIC CERAMIC ELECT	0.1MF 0.0047MF 0.0047MF 0.01MF 0.47MF	10% 10% 10% 20%	100V 50V 50V 50V 50V
C224 1-101-004-00 C225 1-101-004-00 C226 1-102-513-00 C227 1-102-513-00 C228 1-108-570-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 18PF 18PF 0.0043MF	5% 5% 5%	50V 50V 50V 50V 50V	C279 C280 C281 C282 C283 C284	1-108-371-00 1-108-371-00 1-110-182-00 1-110-182-00 1-123-316-00 1-123-356-00	MYLAR MYLAR MYLAR MYLAR ELECT ELECT	0.0033MF 0.0033MF 0.022MF 0.022MF 10µF 10MF	10% 10% 10% 10% 20% 20%	100V 100V 250V 250V 16V 25V
C229 1-130-626-00 C230 1-123-379-00 C231 1-123-379-00 C232 1-123-380-00 C233 1-123-380-00	ELECT ELECT ELECT	0.033MF 0.47MF 0.47MF 1MF 1MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V	C301 C302 C303 C304 C305	1-123-332-00 1-123-297-00 1-101-884-00 1-123-318-00 1-123-318-00		47MF 330MF 56PF 33MF 33MF	20% 20% 5% 20% 20%	16V 6.3V 50V 16V 16V
C234 1-123-318-00 C235 1-123-318-00 C236 1-123-356-00 C237 1-123-356-00 C238 1-123-328-00	ELECT ELECT ELECT	33MF 33MF 10MF 10MF 4.7MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 25V	C306 C307 C308 C309 C310	1-123-379-00 1-123-332-00 1-102-959-00 1-101-880-00 1-102-678-00	ELECT ELECT CERAMIC CERAMIC CERAMIC	0.47MF 47MF 22PF 47PF 100PF	20% 20% 5% 5% 5%	50V 16V 50V 50V 50V
C239 1-108-393-00 C240 1-123-379-00 C241 1-123-322-00 C242 1-123-354-00 C243 1-123-354-00	ELECT ELECT ELECT	0.22MF 0.47MF 330MF 3.3MF 3.3MF	10% 20% 20% 20% 20%	100V 50V 16V 50V 50V	C311 C312 C313 C314 C315	1-123-356-00 1-123-343-00 1-101-888-00 1-102-953-00 1-102-525-00		10MF 33MF 68PF 18PF 68PF	20% 20% 5% 5% 5%	16V 25V 50V 50V 50V
C244 1-123-332-00 C245 1-123-380-00 C246 1-123-380-00 C247 1-123-356-00 C248 1-123-356-00	ELECT ELECT ELECT	47MF 1MF 1MF 10MF 10MF	20% 20% 20% 20% 20%	16V 50V 50V 16V 16V	C316 C317 C318 C319 C320	1-110-171-00 1-123-379-00 1-110-171-00 1-102-971-00 1-102-973-00	ELECT MYLAR CERAMIC	0.047MF 0.47MF 0.047MF 82PF 100PF	10% 20% 10% 5% 5%	100V 50V 100V 50V 50V
C249 1-110-186-00 C250 1-110-176-00 C251 1-123-332-00	MYLAR	0.0047MF 0.12MF 47MF	10% 10% 20%	400V 100V 16V	C321 C322 C323	1-101-004-00 1-101-004-00 1-123-343-00	CERAMIC	0.01MF 0.01MF 33MF	20%	50V 50V 25V



Ref.No Part No.	Description			Remark	Ref.No	Part No.	Description		Remark
C324 1-123-343-00 C325 1-101-004-00 C326 1-123-379-00 C327 1-123-354-00 C328 1-102-887-00	CERAMIC ELECT ELECT	33MF 0.01MF 0.47MF 3.3MF 47PF	20% 20% 20% 5%	25V 50V 50V 50V 50V	DL301 DL302	1-415-330-00	AY LINE DELAY LINE, Y DELAY LINE (1H)	
C329 1-102-889-00 C330 1-102-678-00 C331 1-102-850-00 C332 1-123-353-00 C333 1-131-371-00	CERAMIC CERAMIC ELECT	39PF 100PF 56PF 2.2MF 10MF	5% 5% 5% 20% 20%	50V 50V 50V 50V 16V	F7 		<u>NECTOR</u> PLUG, CONNECTOR	R (2.5MM PITCH)	
C334 1-101-004-00 C335 1-123-343-00 C336 1-110-175-00 C337 1-123-380-00 C338 1-101-004-00	CERAMIC ELECT MYLAR ELECT	0.01MF 33MF 0.1MF 1MF 0.01MF	20% 10% 20%	50V 25V 100V 50V 50V	IC 002 IC 003 IC 101	8-759-600-63 8-759-600-66 8-759-171-05 8-759-800-12 8-759-276-07	IC M58653P IC UPC7805H IC LA7920		
C339 1-123-380-00 C340 1-123-380-00 C341 1-102-971-00 C342 1-110-190-00 C343 1-123-380-00	ELECT ELECT CERAMIC MYLAR	1MF 1MF 82PF 0.01MF 1MF	20% 20% 5% 10% 20%	50V 50V 50V 400V 50V	IC 202 IC 203 IC 204	6-066-719-40 8-759-007-54 8-759-007-55 8-759-140-53 8-759-145-58	IC UPD4053BC		
C344 1-102-963-00 C345 1-101-884-00 C346 1-102-963-00	CERAMIC CERAMIC	33PF 56PF 33PF	5% 5% 5%	50V 50V 50V	IC207	8-759-276-30 8-759-800-15 8-759-113-65	IC LA4440R IC UPC1365C		
FIL	TER				1.1.01	<u>COI</u>	_	47000	
CF001 1-527-790-00 CF201 1-527-840-00 CF202 1-527-839-00 CF301 1-404-134-00 CF302 1-409-332-00	FILTER, CEŔA FILTER, CERA TRAP, CERAMI	MIC MIC C (5.5MHZ)			L101 L102 L103 L105 L107	1-404-476-00 1-404-476-00	COIL, IF MICRO INDUCTOR		
DIO	DE				L108 L109	1-404-427-00 1-408-600-00	VIFT MICRO INDUCTOR	5.6UH	
D001 8-719-101-02	DIODE RD30E- DIODE RD3.6E				L110 L201 L202	1-408-600-00 1-404-477-00 1-404-476-00		5.6UH	
D004 8-719-100-65 D102 8-719-911-19	DIODE RD12E~ DIODE 1SS119	l			L203 L204 L205	1-404-477-00	MICRO INDUCTOR MICRO INDUCTOR COIL, IF	5.6UH	
D201 8-719-100-42 D202 8-719-911-19 D203 8-719-911-19 D204 8-719-911-19	DIODE 1SS119 DIODE 1SS119	ı			L206 L301 L303	1-408-947-00 1-408-605-00 1-408-600-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	15UH	
D205 8-719-911-19 D206 8-719-911-19	DIODE 188119 DIODE 188119). 			L304 L305 L306	1-408-607-00 1-408-602-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	22UH 8.2UH	
D207 8-719-100-65 D208 8-719-911-19 D209 8-719-911-19 D210 8-719-911-19 D301 8-719-026-11	DIODE 1SS119				L307 L308 L309 L310 L311	1-408-602-00 1-408-603-00 1-408-243-00	MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR MICRO INDUCTOR	8.2UH 10UH 12MMH	
D3 02 8-719-026-11 D3 03 8-719-911-19 D3 04 8-719-911-19 D3 06 8-719-911-19	DIODE 188119 DIODE 188119				L312	1-408-608-00 <u>CONI</u>	MICRO INDUCTOR NECTOR PLUG, CONNECTOR	27UH	



Ref.No Part No.	Description	Remark	Ref.No	Part No.	Description			Remark
-	TRANSISTOR 2SC2458		R018 R019 R020 R021 R022	1-247-663-00 1-247-863-00 1-247-839-00 1-247-863-00 1-247-871-00	C ARBON C ARBON C ARBON	1.5K 22K 2.2K 22K 47K	5%	1/4w F 1/6W 1/6W 1/6W 1/6W
Q005 8-729-245-83 Q101 8-729-245-83 Q102 8-765-300-00 Q201 8-729-245-83 Q202 8-729-117-54	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2009 TRANSISTOR 2SC2458		R023 R024 R025 R026 R027	1-247-875-00 1-247-863-00 1-247-871-00 1-247-847-00 1-247-855-00	CARBON	68K 22K 47K 4.7K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
Q203 8-729-245-83 Q204 8-729-245-83 Q205 8-729-245-83 Q206 8-729-245-83 Q207 8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		R028 R029 R030 R031 R032	1-247-855-00 1-247-871-00 1-247-859-00 1-247-871-00 1-247-847-00	C ARBON C ARBON C ARBON	10K 47K 15K 47K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
Q209 8-729-900-33 Q209 8-729-900-33 Q210 8-729-900-33 Q301 8-729-245-83 Q302 8-729-245-83	TRANSISTOR DTC144EF TRANSISTOR DTC144EF TRANSISTOR DTC144EF TRANSISTOR 2SC2458		R033 R034 R035 R036 R038	1-247-863-00 1-247-871-00 1-247-807-00 1-247-807-00 1-247-831-00	C ARBON C ARBON C ARBON	22K 47K 100 100 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
Q304 8-729-117-54 Q305 8-729-245-83 Q306 8-729-245-83 Q307 8-729-117-54	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SA1175		R039 R040 R044 R045 R046	1-247-831-00 1-247-815-00 1-247-815-00 1-247-815-00	C ARBON C ARBON C ARBON C ARBON	1K 1K 220 220 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
Q308 8-729-245-83 Q309 8-769-200-30 Q310 8-729-245-83 Q311 8-729-117-54 Q312 8-729-245-83 Q313 8-729-117-54	TRANSISTOR 2SK107-3 TRANSISTOR 2SC2458 TRANSISTOR 2SA1175 TRANSISTOR 2SC2458		R047 R048 R049 R050 R051	1-247-815-00 1-247-815-00 1-247-815-00 1-247-815-00 1-247-799-00	C ARBON C ARBON C ARBON C ARBON C ARBON	220 220 220 220 47	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
Q314 8-729-245-83 Q315 8-729-245-83	TRANSISTOR 2SC2458 TRANSISTOR 2SC2458		R053 R054 R055 R056	1-247-799-00 1-247-831-00 1-247-831-00 1-247-119-00	C ARBON C ARBON C ARBON	47 1K 1K 330	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W F
<u>RE</u>	SISTOR		 R101	1-247-839-00	C ARBON	2.2K	5%	1/6W
R001 1-247-831-00 R002 1-247-841-00 R003 1-247-831-00 R004 1-247-841-00 R005 1-247-857-00	CARBON 2.7K CARBON 1K CARBON 2.7K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W	R102 R104 R105 R106	1-247-839-00 1-247-891-00 1-247-843-00 1-247-867-00	C ARBON C ARBON C ARBON	2.2K 330K 3.3K 33K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W
R006 1-247-871-00 R007 1-247-863-00 R008 1-247-863-00 R009 1-247-863-00 R010 1-247-863-00	C ARBON 22K C ARBON 22K C ARBON 22K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W	R107 R108 R109 R110 R111	1-247-877-00 1-247-886-00 1-247-847-00 1-247-845-00 1-247-815-00	C ARBON C ARBON C ARBON	82K 200K 4.7K 3.9K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R011 1-247-831-00 R012 1-247-863-00 R013 1-247-863-00 R014 1-247-847-00 R015 1-247-663-00	C ARBON 1K C ARBON 22K C ARBON 22K C ARBON 4.7K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/4W F	R112 R113 R114 R115 R117	1-247-831-00 1-247-815-00 1-247-837-00 1-247-841-00 1-247-835-00	C ARBON C ARBON C ARBON C ARBON C ARBON	1K 220 1.8K 2.7K 1.5K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R016 1-247-863-00 R017 1-247-863-00		5% 1/6W 5% 1/6W	R118 R151 R152	1-247-901-00 1-247-879-00 1-247-879-00	C ARBON C ARBON C ARBON	820K 100K 100K	5% 5% 5%	1/6W 1/6W 1/6W



Ref.No Part No.	Description		Remark	Ref.No Part No.	Description		Remark
R153 1-247-863-00 R154 1-247-857-00 R202 1-247-829-00 R203 1-247-829-00 R204 1-247-829-00	C ARBON 12K C ARBON 82 0 C ARBON 82 0	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R261 1-247-869 R262 1-247-855 R263 1-247-857 R264 1-247-879 R265 1-247-879	-00 CARBON -00 CARBON -00 CARBON	39K 5% 10K 5% 12K 5% 100K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R205 1-247-863-00 R206 1-247-847-00 R207 1-247-877-00 R208 1-247-831-00 R209 1-247-869-00	CARBON 4.7K CARBON 82K CARBON 1K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R266 1-247-871 R270 1-247-855 R271 1-247-855 R272 1-247-855 R273 1-247-855	-00 CARBON -00 CARBON -00 CARBON	47K 5% 10K 5% 10K 5% 10K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R211 1-247-839-00 R212 1-247-871-00 R213 1-247-819-00 R214 1-247-819-00 R215 1-247-839-00	C ARBON 47K C ARBON 330 C ARBON 330	5% 1/6W 5% 1/6W 5% 1/6W		R274 1-247-835 R275 1-247-887 R276 1-247-887 R277 1-247-855 R278 1-247-855	-00 CARBON -00 CARBON -00 CARBON	1.5K 5% 220K 5% 220K 5% 10K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R216 1-247-865-00 R217 1-247-863-00 R219 1-247-879-00 R220 1-247-879-00 R221 1-247-879-00	C ARBON 22K C ARBON 100K C ARBON 100K	5% 1/6W		R279 1-247-825 R280 1-247-825 R281 1-247-775 R282 1-247-775 R283 1-247-871	-00 CARBON -00 CARBON -00 CARBON -00 CARBON	560 5% 560 5% 4.7 5% 4.7 5% 4.7 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R222 1-247-879-00 R223 1-247-831-00 R224 1-247-831-00 R225 1-247-831-00 R226 1-247-831-00	CARBON 1K CARBON 1K CARBON 1K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R284 1-247-847 R285 1-247-847 R301 1-247-805 R302 1-247-805 R303 1-247-821 R304 1-247-819	-00 CARBON -00 CARBON -00 CARBON -00 CARBON	4.7K 5% 4.7K 5% 82 5% 82 5% 390 5% 330 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
R227 1-247-863-00 R228 1-246-993-00 R229 1-247-835-00 R230 1-247-835-00 R231 1-247-831-00	C ARBON 470 C ARBON 1.5K C ARBON 1.5K		F	R305 1-247-863 R306 1-247-851 R307 1-247-833 R308 1-247-831 R309 1-247-867	-00 CARBON -00 CARBON -00 CARBON	22K 5% 6.8K 5% 1.2K 5% 1K 5% 33K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R232 1-247-831-00 R238 1-247-855-00 R239 1-247-855-00 R240 1-247-879-00 R241 1-247-879-00	CARBON 10K CARBON 10K CARBON 100K			R310 1-247-871 R311 1-247-831 R312 1-247-813 R313 1-247-831 R314 1-247-799	-00 CARBON -00 CARBON -00 CARBON	47K 5% 1K 5% 180 5% 1K 5% 47 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R242 1-247-879-00 R243 1-247-879-00 R244 1-247-895-00 R246 1-247-887-00 R247 1-247-887-00	C ARBON 100K C ARBON 470K C ARBON 220K	5% 1/6W 5% 1/6W 5% 1/6W		R316 1-247-855- R317 1-247-818- R318 1-247-859- R319 1-247-835- R320 1-247-831-	-00 CARBON -00 CARBON	10K 5% 300 5% 15K 5% 1.5K 5% 1K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R248 1-247-855-00 R249 1-247-855-00 R250 1-247-895-00 R251 1-247-848-00 R252 1-247-838-00	C ARBON 10K C ARBON 470K C ARBON 5.1K			R321	-00 CARBON -00 CARBON -00 CARBON	1K 5% 390 5% 1K 5% 1K 5% 1.2K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R253 1-247-877-00 R254 1-247-855-00 R255 1-247-855-00 R256 1-247-839-00 R257 1-247-855-00	CARBON 10K CARBON 10K CARBON 2.2K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W		R327 1-247-835- R328 1-247-835- R329 1-247-831- R330 1-247-829- R331 1-247-865-	-00 CARBON -00 CARBON -00 CARBON	1.5K 5% 1.5K 5% 1K 5% 820 5% 27K 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R258 1-247-807-00 R259 1-247-887-00 R260 1-247-876-00	CARBON 220K	5% 1/8W 5% 1/6W 5% 1/6W	F	R332	OO CARBON OO CARBON OO CARBON	27K 5% 2.2K 5% 220 5%	1/6W 1/6W 1/6W



Ref.No Part No. Descript	<u>on</u>	Remark	Ref.No Part No. Description Remark
R335 1-247-821-00 CARBON R336 1-247-815-00 CARBON R337 1-247-821-00 CARBON R338 1-247-823-00 CARBON R339 1-247-863-00 CARBON	390 5% 1/6W 220 5% 1/6W 390 5% 1/6W 470 5% 1/6W 22K 5% 1/6W		RV202 1-228-727-00 RES, ADJ, CERAMIC CARBON 47K RV301 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K RV302 1-228-721-00 RES, ADJ, CERAMIC CARBON 2.2K RV303 1-228-719-00 RES, ADJ, CERAMIC CARBON 470 RV304 1-228-724-00 RES, ADJ, CERAMIC CARBON 10K
R340 1-247-857-00 CARBON R341 1-247-847-00 CARBON R342 1-247-831-00 CARBON R343 1-247-879-00 CARBON R344 1-247-807-00 CARBON	12K 5% 1/6W 4.7K 5% 1/6W 1K 5% 1/6W 100K 5% 1/6W 100 5% 1/6W		RV305 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K RV306 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K FILTER
R345 1-247-855-00 CARBON R346 1-247-863-00 CARBON R347 1-247-887-00 CARBON R348 1-247-839-00 CARBON R349 1-247-851-00 CARBON	100 5% 1/6W 10K 5% 1/6W 22K 5% 1/6W 220K 5% 1/6W 2.2K 5% 1/6W 6.8K 5% 1/6W		SF101 1-404-438-00 FILTER, SAW SF2014:4-362-287-00 SHIELD, SAWF TRANSFORMER T301 1-426-121-00 DAT
R350 1-247-877-00 CARBON R351 1-247-843-00 CARBON R352 1-247-831-00 CARBON R353 1-247-851-00 CARBON R354 1-247-849-00 CARBON	82K 5% 1/6W 3.3K 5% 1/6W 1K 5% 1/6W 6.8K 5% 1/6W 5.6K 5% 1/6W		TUNER TU101_1-463-421-21 TUNER, ET (BT-883) CRYSTAL
R355 1-247-839-00 CARBON R356 1-247-843-00 CARBON R357 1-247-855-00 CARBON R358 1-247-859-00 CARBON R359 1-247-855-00 CARBON	2.2K 5% 1/6W 3.3K 5% 1/6W 10K 5% 1/6W 15K 5% 1/6W 10K 5% 1/6W		X301 1-527-588-21 OSCILLATOR, CRYSTAL ***********************************
R360 1-247-851-00 CARBON R361 1-247-843-00 CARBON R362 1-247-871-00 CARBON R363 1-247-903-00 CARBON R364 1-247-851-00 CARBON	6.8K 5% 1/6W 3.3K 5% 1/6W 47K 5% 1/6W 1M 5% 1/6W 6.8K 5% 1/6W		1 -508-335-00 C BOARD 1-526-616-00 SOCKET, CRT 1 -4-362-279-00 SPACER, TR
R365 1-247-885-00 CARBON R366 1-247-849-00 CARBON R367 1-247-807-00 CARBON R368 1-247-819-00 CARBON R369 1-247-819-00 CARBON	180K 5% 1/6W 5.6K 5% 1/6W 100 5% 1/6W 330 5% 1/6W 330 5% 1/6W	1	CONNECTOR A5
R370 1-247-819-00 CARBON R371 1-247-843-00 CARBON R372 1-247-843-00 CARBON R373 1-247-843-00 CARBON R374 1-247-855-00 CARBON	330 5% 1/6W 3.3K 5% 1/6W 3.3K 5% 1/6W 3.3K 5% 1/6W 10K 5% 1/6W		C701
R375 1-247-807-00 CARBON R376 1-247-807-00 CARBON R377 1-247-871-00 CARBON R378 1-247-839-00 CARBON R379 1-247-839-00 CARBON	100 5% 1/6W 100 5% 1/6W 47K 5% 1/6W 2.2K 5% 1/6W 2.2K 5% 1/6W	! !	C706 1-161-314-00 CERAMIC 180PF 10% 50V CONNECTOR D5 4:1-555-948-00 CONNECTOR ASSY, MINIATURE 5P
R380 1-247-841-00 CARBON R381 1-247-831-00 CARBON R382 1-247-828-00 CARBON R383 1-247-831-00 CARBON	2.7K 5% 1/6w 1K 5% 1/6w 750 5% 1/6w 1K 5% 1/6w	1	COIL L701 1-407-753-00 MICRO INDUCTOR 180UH L702 1-407-556-00 CHOKE COIL 6.8UH
VARIABLE RES			TRANSISTOR 0701 8-729-322-78 TRANSISTOR 2SC2278
RV101 1-228-723-00 RES, ADJ RV201 1-228-727-00 RES, ADJ	CERAMIC CARBON 47K		Q701

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



Ref.No	Part No.	Description				Remark	Ref.No	Part No.	Description			Remark
Q703	8-729-322-78	TRANSISTOR 2S	C2278				C504	1-108-365-00		0.001MF	10%	100V
	RES	ISTOR					C505 C506	1-108-381-00 1-108-379-00	MYLAR	0.022MF 0.015MF	10% 10%	100V 100V
R701	1-215-134-00	ME TAL	180	5%	1/4W		C507	1-102-989-00 1-123-380-00	CERAMIC ELECT	68PF 1MF	5% 20%	500V 50V
R702 R703	1-215-168-00 1-206-692-00		4.7K 15K		1/4W 2W	_						
R704	1-215-168-00	ME TAL	4.7K	5%	1/4W	r	C509 C510	1-123-380-00 1-108-381-00	MYLAR	1MF 0.022MF	20% 10%	50V 100V
R705	1-215-134-00	METAL	180	5%	1/4W		C511 C512	1-106-180-00 1-129-794-00		0.0022MF 0.0033MF	5% 5%	100V 100V
R706 R707	1-206-692-00 1-215-138-00		15K 270	5% 5%	2W 1/4W	F	C513	1-123-336-00		470MF	20%	25V
R708	1-215-168-00	ME TAL	4.7K	5%	1/4W	_	C516	1-108-595-00		0.047MF	5%	50 V
R709 R710	1-206-692-00 1-202-824-00		15K 3.3K	5%	2W 1/2W	F	C517 C518	1-102-228-00 1-123-356-00		470PF 10MF	10% 20%	50 0V 25 V
R711	1~202~837~00	SOLID	82K		1/2W		C519 C521	1-131-367-00 1-130-640-00	TANTALUM	22MF 0.47MF	10% 5%	20V 50V
R713 R714	1-202-824-00	SOLID	3.3K		1/2W							
R715	1-202-609-00 1-202-841-00	SOLID	33K 180K		1/2W 1/2W		C522 C523	1-123-379-00 1-123-380-00	ELECT	0.47MF 1MF	20% 20%	50V 50V
R716	1-202-824-00	SOLID	3.3K		1/2W		C524	1-108-377-00 1-123-380-00		0.01MF 1MF	10% 20%	100V 50V
R717 R718	1-202-719-00 1-202-549-00	SOLID	1M 100	10% 10%	1/2W		C526	1-108-384-00		0.039MF	10%	100V
R719	1-202-842-00	SOLID	220K	10%	1/2W 1/2W		C527	1-108-367-00		0.0015MF	10%	100V
R720 R721	1-202-846-00 1-202-848-00		470K 680K		1/2W 1/2W		C528 C529	1-123-380-00 1-108-198-00		1MF 0.012MF	20% 10%	50V 100V
R722	1-215-128-00	METAL	100	5%	1/4W		C531 C533	1-123-322-00 1-123-360-00	ELECT	330MF 100MF	20% 20%	16V 50V
R723	1-215-128-00	METAL	100	5%	1/4W							
R724	1-215-128-00	METAL	100	5%	1/4W		C534 C535	1-108-377-00 1-108-372-00	MYLAR	0.01MF 0.0039MF	10% 10%	100V 100V
	VAR	IABLE RESISTOR	-				C536	1-124-192-00 1-108-377-00		4.7MF 0.01MF	20% 10%	50V 100V
RV701	1-228-723-00	RES, ADJ, CER	AMIC C	ARBON	4.7K		C538	1-108-385-00		0.01MF	10%	100V
RV703	1-228-723-00 1-228-723-00	RES. ADJ. CER	AMIC C	ARBON	4.7K		C539	1-101-810-00	CERAMIC	100PF	5%	50 0V
RV704	1-228-717-00 1-228-717-00	RES. ADJ. CER	AMIC C	ARBON	220		C540	1-108-365-00 1-161-961-11	MYLAR CERAMIC	0.001MF 0.0022MF	10% 10%	100V 3KV
	1-226-114-00						C542	1-108-387-00 1-130-956-11	MYLAR	0.068MF 0.0133MF	10%	100V 1.2KV
RV707	1-226-114-00	RES, ADJ, MET	AL GLA	ZE 2.2	M						3%	
	SPA	RK GAP					C544 C545	1-130-959-00 1-102-223-00	CERAMIC	0.047MF 0.0047MF	5% 20%	400V 1.6KV
SG 7 01	1-519-063-XX	DISCHARGING G	ΔP				C546 C547	1-123-254-00 1-102-038-00	ELECT	10MF 0.001MF		250V 500V
SG 7 02	1-519-063-XX 1-519-063-XX	DISCHARGING G	AP				C548	1-123-357-00		22MF	20%	50V
SG 7 04	1-519-063-XX	DISCHARGING G	AΡ				C549	1-123-334-00		220MF	20%	25V
	1-519-063-XX						C550 C551	1-123-333-00 1-102-038-00		100MF 0.001MF	20%	25V 500V
SG 7 06	1-519-063-XX	DISCHARGING G	AP				C552 C553	1-123-346-00 1-108-381-00	ELECT	220MF	20% 10%	35V 100V
*****	******	******	*****	****	*****	*****				0.022MF		
٠	: A-1345-385-A	D BOARD, COMP	LETE				C554 C555	1-108-385-00 1-123-332-00		0.047MF 47MF	10% 20%	10 0V 16 V
		*****	****				C556 C557	1-123-332-00 1-130-547-00		47MF 1.5MF	20% 5%	16V 20 0 V
	CAP	ACITOR					C558	1-136-105-00		0.33MF	10%	250 V
C501	1-123-024-00		33MF		00%	160V	C559	1-108-377-00		0.01MF	10%	100V
C502 C503	1-123-333-00 1-108-385-00		100MF 0.047M	F	20% 10%	25V 100V	C560 C561	1-130-547-00 1-123-356-00		1.5MF 10MF	5% 20%	200V 25V

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



1-102-002-00 CERAMIC CRAPTIC CATHER COS 1-103-00-00 CERAMIC CO-047H COS 1-101-003-00 CERAMIC C. 0047H TOS TOW COS 1-108-071-00 MTLAR C. 0027H TOS TOW COS C. 1-108-071-00 MTLAR C. 0027H TOS TOW C. 1-108-071-00 MTLAR C. 0027H TOW	Ref.No Part No.	Description			Remark	Ref.No	Part No.	Description				Remark
1-101-003-00 CERAMIC 0.004/MF 0.004 10x 100V 100V 10x 10x 100V 100V 10x 100V 100							TRA	NSISTOR				
1-508-765-00 3P PLUG (M) 2-566-274-00 PLUG (OMNECTOR (2.5MM) 4P 4-339-335-010-00 HAT SINK, (503) 4-339-335-010-00 HAT SINK, (503) 4-339-335-010-00 HAT SINK, (503) 4-339-335-010-00 HAT SINK, (503) 4-339-335-010-00 HAT SINK, (703) HAT SINK, (704) HAT SINK, (C564 1-101-003-00 C565 1-108-381-00 C566 1-108-377-00	CERAMIC MYLAR MYLAR	0.0047MF 0.022MF	10%	50V 100V	0502 0503	8-729-168-82 8-729-341-34 3-701-609-00	TRANSISTOR 25 TRANSISTOR 25 BUSHING (B),	SC2688 SC1413A TR, Q50	O3 ANSIST	OR. 05	503
22 \$\cdot 1-1-560-224-00 \text{PLUG}, \text{ Connectors } \((2.5\text{ SMM} \) 4P \\ 3 \$\cdot 1-1-508-78-00 \text{ OP PLUG}, \text{ Connectors } \((2.5\text{ SMM} \) 4P \\ 5 \$\cdot 1-1-508-78-00 \text{ OP PLUG} \\ 5 \$\cdot 1-1-508-78-00 \text{ OP PLUG} \\ 5 \$\cdot 1-1-508-78-00 \text{ OP PLUG} \\ 5 \$\cdot 1-508-78-00 \text{ OP PLUG} \\ 5 \$\cdot 1-508-79-00 \text	D1 A.1 500.765.00	20 DLUC (M)									•	
1-508-784-00 P PLUG	D2	PLUG, CONNÉC PLUG, CONNEC 2P PLUG (M)	TOR (2.5MM) TOR (2.5MM)	10P 4P	:	Q509	:4-336-010-00 :4-362-210-00 8-729-313-42	HEAT SINK, OS SHEET (TO-3), TRANSISTOR 25	503 , 0503 501134	Q509		
DECORAGE PLUG PLU							RES	ISTOR				
DIODE S-719-911-19 DIODE ISS119												F
D502 8-719-911-19 D100E 1SS119 R506 1-215-164-00 METAL 3.3K 5% 1/4W	DIO	DDE										
D502 R-7/19-911-19 D100E ISSI19 R506 R-247-168-00 METAL 36K 5% 1/4N	DE01 0 710 011 10								82K	5%	1/4W	
D506						R505	1-215-164-00	METAL	3.3K	5%	1/4W	
D507	D504 8-719-911-19	DIODE ISS119				R506	1-247-168-00	METAL	36K	5%	1/4W	
R512 1-214-768-00 METAL 43% 174												
DS09 8-719-903-09 D100E Y030N	0-113-202-12	DIODE GHOP					1-214-768-00	METAL METAL				
DS10			08									
DS11 8-719-901-93 D10DE V19E R516 1-215-168-00 METAL 4.7% 5% 1/4W R518 R516 1-215-168-00 METAL 4.7% 5% 1/4W R518						0514	1.216.192.00	METAL	102	E o/	1 //14	
D512 8-719-901-93 D10DE V19E R516 1-215-168-00 METAL A 7K SX 1/4W R517 1-212-363-00 METAL A 7K SX 1/4W R518 8-719-300-45 D10DE EMIZ R518 1-215-142-00 METAL 330 5% 1/4W R518 1-215-142-00 METAL 330 5% 1/4W R518 1-215-142-00 METAL 330 5% 1/4W R518 1-215-142-00 METAL 340 5% 1/4W R518 1-215-142-00 METAL 340 5% 1/4W R518 1-215-142-00 METAL 340 5% 1/4W R518 1-215-142-00 METAL 360 5% 1/4W R518 1-215-142-00 METAL 360 5% 1/4W R518 1-215-142-00 METAL 360 5% 1/4W R518 1-247-120-00 METAL 360 5% 1/4W R518 1-247-120-00 METAL 360 5% 1/4W R518 1-247-120-00 METAL 360 5% 1/4W R518 1-247-159-00 METAL 360 5% 1/4W R518 1-247-159-100 METAL 360 5% 1/4W R528 1-245-138-00 METAL 360 5% 1/4W R518 1-247-159-159-00 METAL 360 5% 1/4W R518 1-247-159-100 METAL 360 3												
D513 8-719-901-93 D10DE V19E D514 8-719-300-45 D10DE EMIZ D515 8-719-300-45 D10DE EMIZ R520	D512 8-719-901-93					R516	1-215-168-00	METAL				
D514 8-719-300-45 D10DE EM1Z R519 1-215-162-00 METAL 2.7K 5% 1/4W R520 1-214-770-00 METAL 51K 1% 1/4W R520 1-215-148-00 METAL 51K 1% 1/4W R521 1-215-148-00 METAL 31K 1% 1/4W R521 1-215-148-00 METAL 31K 1% 1/4W R521 1-215-148-00 METAL 31K 1% 1/4W R521 1-214-750-00 METAL 360 5% 1/4W R521 1-214-750-00 METAL 360 5% 1/4W R521 1-214-755-00 METAL 360 5% 1/4W R521 1-215-162-00 METAL 360 5% 1/4W R521 1-215-162-00 METAL 360 5% 1/4W R521 1-215-162-00 METAL 3.9K 5% 1/4W R522 1-215-160-00 METAL 3.9K 5% 1/4W R521 1-215-160-00 METAL 3.9K 5% 1/4W R521 1-215-138-00 METAL 3.9K 5% 1/4W R521 1-215-138-00 METAL 3.9K 5% 1/4W R521 1-215-138-00 METAL 3.9K 5% 1/4W R523 1-215-138-00 METAL 3.9K 5% 1/4W R523 1-215-138-00 METAL 3.9K 5% 1/4W R523 1-215-130-00 METAL 3.9K 5% 1/4W R524 1-215-130-00 METAL 3.9K 5% 1/4W R524 1-215-130-00 METAL 3.9K 5% 1/4W R525 1-215	DE12 9 710 001 02	DIODE VIOL										F
D515 8-719-300-45 D10E EM1Z R519 1-215-162-00 METAL 2.7K 5% 1/4W R520 1-214-770-00 METAL 680 5% 1/4W R521 1-215-148-00 METAL 680 5% 1/4W R522 1-247-120-00 METAL 360 5% 1/4W R522 1-247-120-00 METAL 360 5% 1/4W R522 1-247-120-00 METAL 360 5% 1/4W R525 1-215-162-00 METAL 360 5% 1/4W R525 1-215-162-00 METAL 360 5% 1/4W R526 1-215-162-00 METAL 18K 1% 1/4W R526 1-215-162-00 METAL 2.7K 5% 1/4W R526 1-215-162-00 METAL 3.7K 5% 1/4W R526 1-215-162-00 METAL 1K 5% 1/4W R526 1-215-162-00 METAL 1K 5% 1/4W R526 1-215-162-00 METAL 10K 5% 1/4W R526 1-215-148-00 ME						кэта	1-215-142-00	METAL	390	5%	1/4W	
DELAY LINE						R519	1-215-162-00	METAL	2.7K	5%	1/4W	
No.	מרו	AV LINE										
DY1	טבנ	AT LINE										
IC R524 1-214-759-00 METAL 18K 1% 1/4W R525 1-215-194-00 METAL 56K 5% 1/4W R526 1-215-162-00 METAL 2.7K 5% 1/4W R526 1-215-162-00 METAL 3.9K 5% 1/4W R526 1-215-166-00 METAL 3.9K 5% 1/4W R527 1-215-166-00 METAL 3.9K 5% 1/4W R526 R527 1-215-138-00 METAL 270 5% 1/4W R526 R529-905-39 IC TDA1082 R528 R529-700-06 IC NUM7812B R528 R529-700-06 IC NUM7812B R531 1-215-198-00 METAL 0XIDE 18K 5% 2W F R531 R531 R531 R531 R531 R531 R531 R531 R541 R531 R541 R531 R541											•	
IC Section	DY2 4:1-506-348-XX	3P PLUG (L)				DE24	1 214 750 00	METAL	107	1 0/	1 //:	
R526 1-215-162-00 METAL 2.7K 5% 1/4W R527 1-215-166-00 METAL 3.9K 5% 1/4W R527 1-215-166-00 METAL 3.9K 5% 1/4W R528 1-215-138-00 METAL 270 2	IC											
R502 8-759-913-78 IC UPC1378H-L R528 1-215-138-00 METAL 270 5% 1/4W						R526	1-215-162-00	METAL		5%		
IC 503 8-759-905-39 IC TDA1082 IC 505 8-759-700-06 IC NJM7812B •:4-348-704-00 HEAT SINK (A), IC 505 COIL			1								•	
R500			L			K528	1-215-138-00	METAL	270	5%	1/4W	
COIL R532 1-215-152-00 METAL 1K 5% 1/4W R533 1-247-095-00 METAL 33 5% 1/4W R544 1-215-200-00 METAL 100K 5% 1/4W R544 1-215-200-00 METAL 100K 5% 1/4W R546 1-215-176-00 METAL 10K 5% 1/4W R547 1-215-148-00 METAL 10K 5% 1/4W R557 1-247-783-00 CARBON 10 5% 1/8W F R557 1-247-783-00 CARBON 10 5% 1/8W F R558 1-213-137-00 METAL 0XIDE 330 5% 1W F R559 1-213-137-00 METAL 0XIDE 330 5% 1/4W R556 1-215-174-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4	IC 505 8-759-700-06	IC NJM7812B				R530	1-206-694-00	METAL OXIDE	18K	5%	2W	F
R533 1-247-095-00 METAL 33 5% 1/4W	♦: 4-348-704-00	HEAT SINK (A), IC505									
L502 1-459-075-00 COIL, DYNAMIC CONVERSION CHOKE 3.3MMH L503 1-408-225-00 MICRO INDUCTOR 3.3UH L504 1-407-365-00 COIL, CHOKE (HIGH FREQUENCY) 0.7UH L505 1-459-104-00 COIL, DUST CORE 10MMH L506 1-408-242-00 MICRO INDUCTOR 10MMH L507 1-459-241-00 COIL, HORIZONTAL LINIALITY L508 1-459-390-00 COIL, HORIZONTAL LINIALITY L509 1-408-240-00 MICRO INDUCTOR 6.8MMH R540 1-215-174-00 METAL R541 1-215-180-00 METAL R545 1-215-180-00 METAL R545 1-215-180-00 METAL R546 1-215-148-00 METAL R547 1-215-148-00 METAL R551 1-247-783-00 CARBON R552 1-213-137-00 METAL OXIDE 330 5% 1W F R553 1-213-137-00 METAL R553 1-213-137-00 METAL R555 1-215-174-00 METAL R555 1-215-174-00 METAL R556 1-215-194-00 METAL R556 1-215-194-00 METAL R557 1-215-194-00 METAL R558 1-215-194-00 METAL R559 1-215-194	COI	L										
L503 1-408-225-00 MICRO INDUCTOR 3.3UH L504 1-407-365-00 COIL, CHOKE (HIGH FREQUENCY) 0.7UH L505 1-459-104-00 COIL, DUST CORE 10MMH L506 1-408-242-00 MICRO INDUCTOR 10MMH L506 1-408-242-00 MICRO INDUCTOR 10MMH L507 1-459-241-00 COIL, HORIZONTAL LINIALITY L508 1-459-390-00 COIL (WITH CORE) L509 1-408-240-00 MICRO INDUCTOR 6.8MMH R551 1-215-188-00 METAL 0XIDE 330 5% 1W F R552 1-213-137-00 METAL 0XIDE 330 5% 1W F R553 1-213-137-00 METAL 0XIDE 330 5% 1W F R554 1-215-174-00 METAL 0XIDE 330 5% 1/4W R555 1-215-188-00 METAL 33K 5% 1/4W R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W		_										
L504 1-407-365-00 COIL, CHOKE (HIGH FREQUENCY) 0.7UH	1 500 - 100 005 00			N CHOKE	3.3MMH	DE45	1 215 100 00	METAL	164	car	1 /41/	
L505 1-459-104-00 COIL, DUST CORE 10MMH R547 1-215-148-00 METAL 680 5% 1/4W R551 1-247-783-00 CARBON 10 5% 1/8W F R552 1-213-137-00 METAL 0XIDE 330 5% 1W F R558 1-459-390-00 COIL, HORIZONTAL LINIALITY L508 1-459-390-00 COIL (WITH CORE) R553 1-213-137-00 METAL 0XIDE 330 5% 1W F R559 1-408-240-00 MICRO INDUCTOR 6.8MMH R554 1-215-174-00 METAL 0XIDE 330 5% 1/4W R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W				ENCY) O.	7UH							
L507 1-459-241-00 COIL, HORIZONTAL LINIALITY L508 1-459-390-00 COIL (WITH CORE) L509 1-408-240-00 MICRO INDUCTOR 6.8MMH R552 1-213-137-00 METAL OXIDE 330 5% 1W F R553 1-213-137-00 METAL OXIDE 330 5% 1W F R554 1-215-174-00 METAL 0XIDE 330 5% 1W F R555 1-215-188-00 METAL 33K 5% 1/4W R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W	L505 1-459-104-00	COIL, DUST C	ORE 10MMH	, 50		R547	1-215-148-00	METAL	680	5%	1/4W	
L507 1-459-241-00 COIL, HORIZONTAL LINIALITY L508 1-459-390-00 COIL (WITH CORE) L509 1-408-240-00 MICRO INDUCTOR 6.8MMH R554 1-215-174-00 METAL 0XIDE 330 5% 1W F R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W	L5Ub 1~408~242~00	MICRO INDUCT	OR 10MMH		,							
L508 1-459-390-00 COIL (WITH CORE) R553 1-213-137-00 METAL OXIDE 330 5% 1W F L509 1-408-240-00 MICRO INDUCTOR 6.8MMH R554 1-215-174-00 METAL 8.2K 5% 1/4W R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W	L507 1-459-241-00	COIL, HORIZO	NTAL LINIAL	ITY		KOOZ	1-613-13/-00	METAL UXIDE	330	5%	TM	г
R555 1-215-188-00 METAL 33K 5% 1/4W R556 1-215-194-00 METAL 56K 5% 1/4W	L508 1-459-390-00	COIL (WITH C	ORE)							5%	1W	F
R556 1~215~194~00 METAL 56K 5% 1/4W	L509 1-408-240-00	MICRO INDUCT	OR 6.8MMH		}							
							1-215-188-00	METAL METAL		5% 5%		
					ļ							

Ref.No Part No. Description Rem								Ref.No Part No. Description					
R558 R559 R560 R561 R562	1-215-182-00 1-215-169-00 1-215-167-00 1-215-196-00 1-215-182-00	METAL METAL METAL	18K 5.1K 4.3K 68K 18K		1/4W 1/4W 1/4W 1/4W 1/4W		J951		_				
R563 R564 R565 R566 R567	1-215-136-00 1-215-176-00 1-215-192-00 1-215-130-00 1-205-642-00	METAL METAL METAL	220 10K 47K 120 3.3K	5% 5% 5% 5% 10%	1/4W 1/4W 1/4W 1/4W 5W		R951 R952	*****	CARBON	470 5% 470 5%	1/2W 1/2W *****	*****	
R568 R569 R570 R571 R573	1-246-995-00 1-247-831-00 1-246-979-00 1-247-636-00 1-247-636-00	C ARBON C ARBON C ARBON	1.8K 1K 1.2 0.47 0.47	5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	F F		♦:1-508-766-00	********* NNECTOR 4P PLUG (M)	OOADD IN ED			
R574 R575 R576 R577	1-202-407-15 1-215-170-00 1-214-779-00 1-212-371-00	METAL METAL METAL OXIDE	10K 5.6K 120K 8.2	1% 5%	1/4W 1/4W 1/4W 1W	F	İ	\$:1-556-555-00 ******** \$:1-610-003-00	**************************************		*****	*****	
R578 R579 R599	1-213-132-00 1-213-147-00 1-247-131-00	METAL OXIDE	120 2.2K 1K	5% 5% 5%	1W 1W 1/4W	F	C901		PACITOR CERAMIC	0.0047MF		50 V	
RV502 RV504	1-224-251-XX 1-228-719-00 1-224-248-XX	RES, ADJ, MET RES, ADJ, CER RES, ADJ, MET RES, ADJ, CER	- TAL GLA TAMIC C TAL GLA	ARBON ZE 470	470)		C902 C903 C904 C905	1-101-003-00 1-102-973-00 1-102-973-00 1-101-003-00	CERAMIC CERAMIC CERAMIC CERAMIC	0.0047MF 100PF 100PF 0.0047MF		50V 50V 50V 50V	
RV506 RV507	1-228-721-00 1-228-724-00	RES, ADJ, CER RES, ADJ, CER RES, ADJ, WIR	AMIC C	ARBON ARBON	2.2K		C908	1-110-182-81 1-110-182-81	MYLAR	0.022MF 0.022MF	10% 10%	250V 250V	
SG 501		<u>RK GAP</u> DISCHARGING G	i A P				J2 J3	♦:1-560-278-00 ♦:1-560-278-00 ♦:1-560-278-00 ♦:1-560-278-00	PLUG, CONNEC	TOR 3P TOR 4P			
enement Anti-Periodical	1-437-078-00 \1-421-520-00	NSFORMER TRANSFORMER, TRANSFORMER,	FERRI 1	E (PH1)		J901 J902	1-526-728-00	SOCKET, SPEA SOCKET, SPEA	\KE R			
	******************	J2 BOARD ******	****	*****	*****	*****	J903 J904	1-562-119-00	JACK, DIN 6P CONNECTOR (F SISTOR				
C951 C952	CAP 1-101-003-00 1-101-003-00		0.0047 0.0047			50V 50V	R901 R902 R903		C ARBON C ARBON	1K 5% 470 5% 470 5%	1/6W 1/6W 1/6W	*****	
	:1-560-278-00	NECTOR PLUG, CONNECT PLUG, CONNECT						♦:1-610-001-00 ♦:4-366-807-00	H BOARD				

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified. THE RESIDENCE OF THE PROPERTY OF THE PARTY O

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Ref.No Part No.	Description			Remark	Ref.No	Part No.	Description				Remark
C401 1-123-612-00 C402 1-123-608-00	ELECT C	2.2MF 0.22MF	20% 20%	50V 50V	R416 R417 R418 R419 R421	1-247-833-00 1-247-831-00 1-247-831-00 1-247-839-00 1-247-831-00	CARBON CARBON CARBON	1.2K 1K 1K 2.2K 1K	5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
D401 8-719-911-19 D402 8-719-911-19 D403 8-719-911-19 D404 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				R423 R425 R427 R428 R430	1-247-807-00 1-247-811-00 1-247-863-00 1-247-863-00 1-247-863-00	C ARBON C ARBON C ARBON	100 150 22K 22K 22K 22K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
D407 8~719~911~19 D408 8~719~911~19	DIODE 188119				R431 R432 R433 R434 R435	1-247-847-00 1-247-847-00 1-247-847-00 1-247-863-00 1-247-871-00	C ARBON C ARBON C ARBON	4.7K 4.7K 4.7K 22K 47K	5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
D411 8-719-911-19 LED401 8-719-803-20 \$:1-526-634-00 LED402 8-719-901-96 \$:4-362-295-00	SOCKET, IC (8P), LED401 D ,LED402			R436 R437 R439 R440	1-247-863-00 1-247-857-00 1-247-849-00 1-247-861-00	C ARBON C ARBON	22K 12K 5.6K 18K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
LED404 8-719-800-24 •:4-362-207-00 LED406 8-719-901-96 •:4-357-812-00 •:4-362-219-00	DIODE TLR147 HOLDER (P), LE	D, LED404 ED406 HOLDER, LE	E D40 6		RV402 RV403 RV404	1-228-540-00 1-228-539-00 1-228-539-00 1-228-539-00	RES, VAR, CARRES, 30N 10 30N 10 30N 10	K K K			
	DIODE SLP161B HOLDER (C), LE				RV407 RV408	1-228-539-00 1-228-539-00	RES, VAR, CARR RES, VAR, CARR RES, VAR, CARR RES, VAR, CARR	30N 10 30N 10	K K		
	ANSISTOR			ļ		SWI	тсн				
Q402 8-729-245-83 Q403 8-729-245-83 Q404 8-729-117-54	TRANSISTOR 2SA TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SC	2458 2458 1175			\$401 \$402 \$403 \$404 \$405	1-552-774-00 1-552-774-00 1-552-774-00 1-552-774-00 1-552-774-00	SWITCH, PUSH SWITCH, PUSH SWITCH, PUSH				
	TRANSISTOR 2SC TRANSISTOR 2SC	2 4 58 2 45 8		[S406 S407 S408	1-552-774-00 1-552-774-00 1-552-774-00	SWITCH, PUSH SWITCH, PUSH				
	SISTOR	40 5		į	\$409 \$410	1-552-774-00 1-552-774-00	SWITCH, PUSH				
R401 1-247-861-00 R402 1-247-827-00 R403 1-247-831-00 R404 1-247-865-00 R405 1-247-863-00	C ARBON C ARBON C ARBON	18K 5% 680 5% 1K 5% 27K 5% 22K 5%	1/6W 1/6W 1/6W 1/6W 1/6W			1-552-774-00 1-554-118-00 1-554-118-00	SWITCH, PUSH SWITCH, PUSH				
R406 1-247-867-00 R407 1-247-843-00 R408 1-247-863-00 R409 1-247-863-00 R411 1-247-871-00	C ARBON C ARBON C ARBON C ARBON	33K 5% 3.3K 5% 22K 5% 22K 5% 47K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		. :	1-606-794-00	****************** N BOARD ******* CASE, SHIELD (LID, SHIELD CA	(MAIN)		*****	*****
R413 1-247-895-00 R415 1-247-863-00		470K 5% 22K 5%	1/6W 1/6W								



Ref.No	o Part No.	Description			Remark	Ref.No Part No.	Description	Remark
	CAP	CITOR					RIES AND PACKING MATERIALS	
C1 C2 C3 C4	1-123-617-00 1-123-617-00 1-123-617-00 1-161-019-00	ELECT ELECT	10MF 10MF 10MF 0.033MF	20% 20% 20% 10%	16V 16V 16V 25V	<u>Part No.</u> A-1470-625-A	Description COMMANDER ASSY (RM-635)	Remark
C5	1-108-567-00		0.0033MF	5%	50V	3-701-360-00 4-362-269-00	LABEL, TACK	
C6	1-123-821-00	ELECT	4 <i>7</i> MF	20%	16V	4-362-270-00 4-362-271-00	CUSHION (UPPER) (ASSY)	
	DIO	DDE				4 - 364-504-00	INDIVIDUAL CARTON	
Dl	8-719-110-32 <u>IC</u>	DIODE PH302E	3				INSTRUCTION, TELETEXT	
IC1	8-759-113-73	IC UPC1373H						
	<u>C01</u>	<u> L</u>						

MISCELLANEOUS

1-404-310-00 COIL 4.7MMH

L1

A.1-228-714-21 A.1-451-204-31 1-452-032-00 1-452-094-00 1-452-146-00	MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø
A.1-536-797-11	TERMINAL BOARD ASSY, ANTENNA
1-543-179-00	CORE, RING
A.1-551-270-31	CORD, POWER
♦:1-551-604-00	CONNECTOR ASSY, MINIATURE 3P
♦:1-551-612-00	CONNECTOR ASSY, MINIATURE (2P)
♦:1-551-614-00	CONNECTOR ASSY, MINIATURE 2P
♦:1-551-674-00	CONNECTOR ASSY 3P
♦:1-551-796-00	CONNECTOR ASSY (2.5MM) 6P
♦:1-551-922-00	CONNECTOR ASSY 3P
♦:1-555-817-00	CONNECTOR ASSY (2.5MM) 4P
♦:1-556-017-00 ♦:1-556-322-00 ♦:1-556-325-00 ♦:1-556-405-00 4:1-556-408-00	CONNECTOR ASSY (2.5MM) 3P CONNECTOR ASSY (2.5MM) 6P CONNECTOR ASSY (2.5MM) 4P CONNECTOR, MINIATURE 2P CONNECTOR ASSY (LARGE) 3P
♦:1-556-412-00	CONNECTOR ASSY (2.5MM) 4P
♦: 1-556-651-00	CONNECTOR ASSY (2.5MM) 4P
♦:1-556-879-00	CONNECTOR ASSY (2.5MM) 10P
L 901 A. 1-426-087-61 L 902 A. 1-426-087-61 S 901 A. 1-553-225-12 S P901 1-503-194-00 S P902 1-503-194-00	
T502 A. 1-439-303-00	TRANSFORMER ASSY, FLYBACK
V 901 A. 8-738-704-05	CRT 520SB22

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

SECTION 6 TELETEXT UNIT (V BOARD)

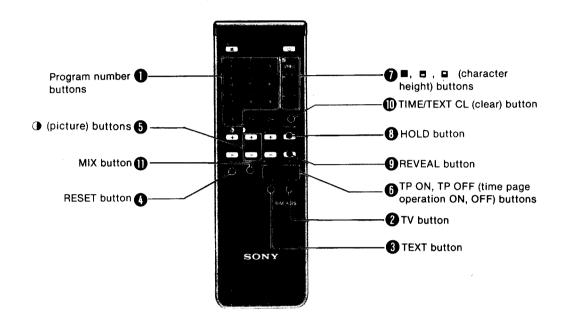
6-1. TO VIEW THE TELETEXT SERVICE

BEFORE OPERATION

- First select the TV channel for the desired teletext service, then press the TEXT button. After you have pressed the TEXT button, the TV channel cannot be changed.
- To receive the teletext service of a different TV station, first restore the TV mode with the TV or RESET button, then select the new station.
- To avoid a malfunction in the teletext mode, do not operate any button which is not described here. If you become confused during the operation, press the RESET button and start again.
- In the teletext mode, be sure to keep the AFT ON button of the TV activated. Otherwise, misoperation may occur.

6-2. TO ENJOY TELETEXT PROGRAMMES

RM-635



• Programme number buttons

Enable corresponding digits (0-9) to be entered into the teletext memory for page number and time.

See "Example two, six or seven".

TV button

Press this button to change the receiver from the teletext mode to the TV mode.

TEXT button

Press this button to change the receiver from the TV mode to the teletext mode.

Press this button to cansel all functions and change the receiver from the teletext mode to the TV mode.

• (picture) buttons

The brightness of the teletext display is adjusted with these buttons.

TP ON, TP OFF (timed page operation ON, OFF) buttons

When the TP ON button is pressed, the teletext memory will capture a selected page at a preset time. This function can be useful if information on a particular page changes throughout the day. Press the TP OFF button to cancel the timed page operation.

See "Example seven".

🕡 🚍 , 🚍 (character height) buttons

- button-Enlarges top half of the teletext display.
- button-Enlarges bottom half of the teletext display.
- button-Restores normal character height.

See "Example five".

O HOLD button

Enables the requested page to be held so that it cannot be updated. See "Example three".

REVEAL button

Displays the answers in a quiz page.

See "Example eight".

TIME/TEXT CL (clear) button

This button suppresses the teletext display and restores the normal TV picture.

See "Example six".

This button enables the time to be displayed in the TV mode.

This time is the same as the time indication in the TEXT mode (top right hand corner). The time display will continue for 5 seconds after the release of the button.

If no teletext service is broadcast on the selected channel, the time will not be displayed.

MIX button

Superimposes the teletext display on the normal TV picture of the selected channel.

See "Example four".

EXAMPLES OF OPERATION

Example one

TO DISPLAY THE INDEX PAGE

Press the TEXT button. If this is the first time the receiver has been put in the teletext mode since be-

ing switched on, the index page of the selected teletext service will automatically appear on the screen. If it is not the first time, key in three-digit teletext service index page number using the programme number buttons. Proceed to "Example two"

Example two

TO OBTAIN A DESIRED TELETEXT PAGE

Key in the correct three digits for the required page. The header display at the top of the page will turn

green to show that the teletext adaptor is waiting for the page you have requested to be broadcast. When that page is next transmitted, it will be displayed on the screen.

If an error is made in keying the page number, complete the threedigit sequence by keying in any digit. Then re-key the correct page number.



Example three

TO STOP THE PAGE

Press the HOLD button and the teletext adaptor will stop entering any new pages into its memory. The mode is indicated in green at the top right hand corner.



This button may be used also with "Subpages". See page 7. To resume normal teletext operation, press TEXT button.

Example four

TO SUPERIMPOSE THE TELETEXT PAGE ON THE NORMAL TV PICTURE

Press the MIX button. To restore normal teletext operation, press the TEXT button. To restore normal TV operation, press the TV button. The MIX button can be used in either the teletext mode or the normal TV mode.



Example five

TO ENLARGE THE TELETEXT DISPLAY

The 🚍 and 🖬 buttons enlarge the teletext display to twice its normal height.

This method is very convenient for long distance viewing or for people with poor eyesight.

To enlarge the display.

1 Obtain a teletext display on the screen.



2 Operate the 💻 button. The top half of the page will now be enlarged to fill the entire screen.



3 Operate the button. The lower half of the page will now be enlarged to fill the entire screen.



To return the normal character height, press the button.

If you request another page while the lower section of a page is being displayed, the top half only of the requested page will automatically be displayed.

Example six

TO WATCH A NORMAL TV PROGRAMME WHILE THE TELETEXT ADAPTOR IS SEARCHING FOR YOUR DESIRED PAGE

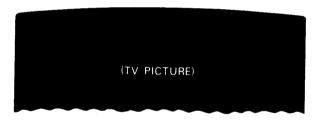
1 Obtain a teletext display on the screen.



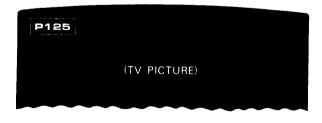
2 Now, request another page. The page header will turn green while the adaptor is waiting for the page to be transmitted.



3 Press the TEXT CL button and the normal TV picture will be restored. (The page header will be displayed for the first few seconds).



Leave the set in this mode. When your requested page has been captured by the adaptor, the page number will be shown in the top left hand corner.



If you wish to view this requested page, press the TEXT button.



Example seven

TO HAVE A REQUESTED PAGE BROADCAST AT A PREDETERMINED TIME

seven The time coding facility enables you to select and store a page of text for display at some predetermined time. It may be used therefore to provide an accurate visual alarm feature reminding you that you wished to do something at a particular time e.g. when programmes on two TV channels overlap it could remind you to change channels at the correct time.

1 Obtain a teletext display on the screen by pressing the TEXT button.



2 Enter new page request.



3 Press the TP ON button.

As soon as the TP ON button is pressed, the time display on the top right of the screen starts flashing.



4 Immediately enter your request time using four digits, for example 07:35



5 Leave the set in this mode. The teletext adaptor will not capture your requested page until the present time and the preset time correspond. When they do correspond, the requested page will be entered into the teletext memory and displayed on the screen.



To watch the normal TV picture while waiting for your requested page to be displayed.

6 Press the TEXT CL button. The page header will be displayed for the first few seconds.



7 When the requested page has been captured, it will be indicated on the screen. To display the requested teletext page, press the TEXT button.



To cancel the timed page operation, press the TP OFF button in the teletext mode.

Notes

- The timed text facility can only be set up in the text mode of operation.
- Not all transmitted pages of teletext will allow operation of the timed text facility.
- Timed text operation will not be completed if the received channel is changed after selecting timed text mode.



TO REVEAL ANSWERS TO A QUIZ

When parts of a quiz page are deliberately concealed on the first display, press the REVEAL button to see

the answers. As long as this button is depressed, all parts of the page are displayed.





OTHER TYPES OF TELETEXT PAGES

Subpages—Each main page may be divided up into several subpages (usually marked 1/3, 2/3, and then 3/3). The time that a particular subpage is displayed should be long enough for you to read the full display. The next subpage will automatically be displayed as soon as it is broadcast. If the display time of a page is too short, use the HOLD button to cancel the automatic display of the next subpage.





Newsflash and subtitle pages—These pages are superimposed on the normal TV picture. They usually contain brief information. Select these pages in the teletext mode and press the TEXT CL button. Updated newsflashes will be automatically displayed on the screen.



Picture adjustment

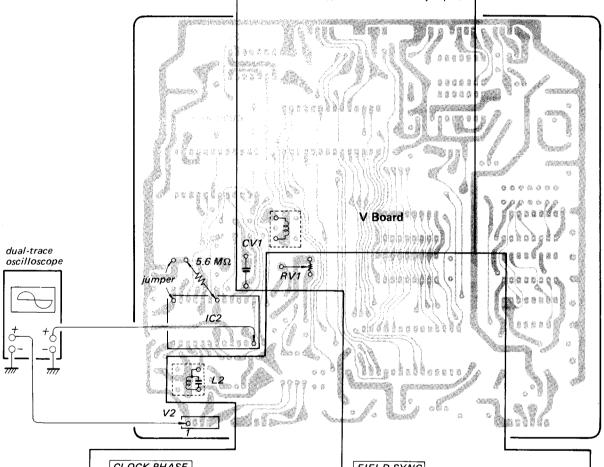
The picture level of the background normal TV picture can be adjusted by using the **()** buttons which will operated in the newsflash/subtitle page mode as well as in the MIX mode.

6-3. ADJUSTMENTS

V BOARD ADJUSTMENTS

6 MHz CLOCK

- 1. Tune in an off-air signal including the TELETEXT signal.
- 2. Press the TEXT button on the remote commander.
- 3. Confirm that the P100 appears on the picture.
- 4. Connect a 5.6 M Ω resistor and a jumper as shown during this adjustment.
- 5. Press the MIX button on the remote commander.
- 6. Adjust CV1 so that the letter P100 does not move horizontally.
- 7. If necessary, adjust L1.
- 8. After completing this adjustment, disconnect a 5.6 M Ω resistor and a jumper.



CLOCK PHASE

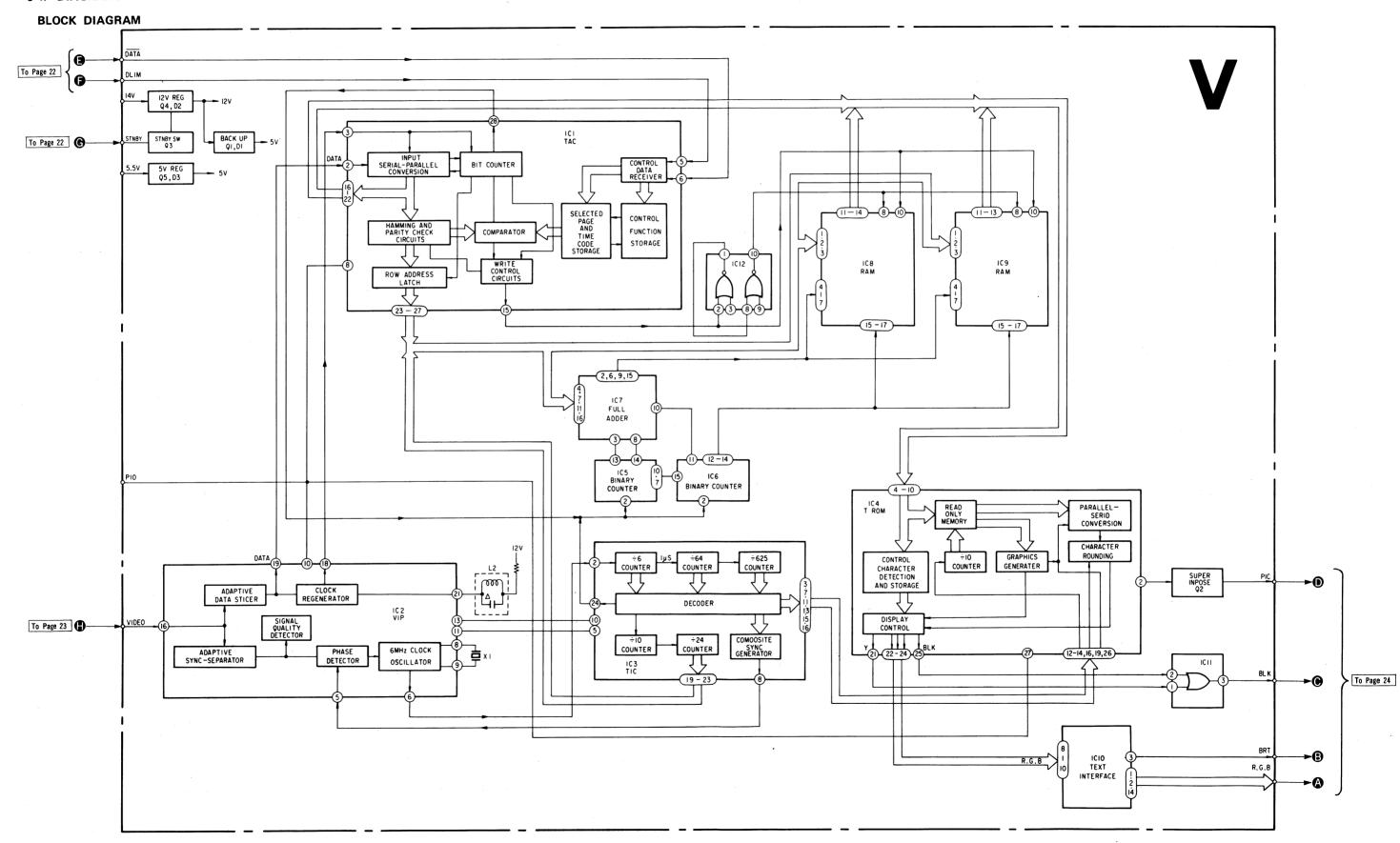
- 1. Tune in an off-air signal including the TELETEXT signal.
- 2. Press the TEXT button on the remote commander.
- 3. Adjust L2 so that the title appears on the picture.
- 4. Adjust L2 finely so that the error does not appear on other page.

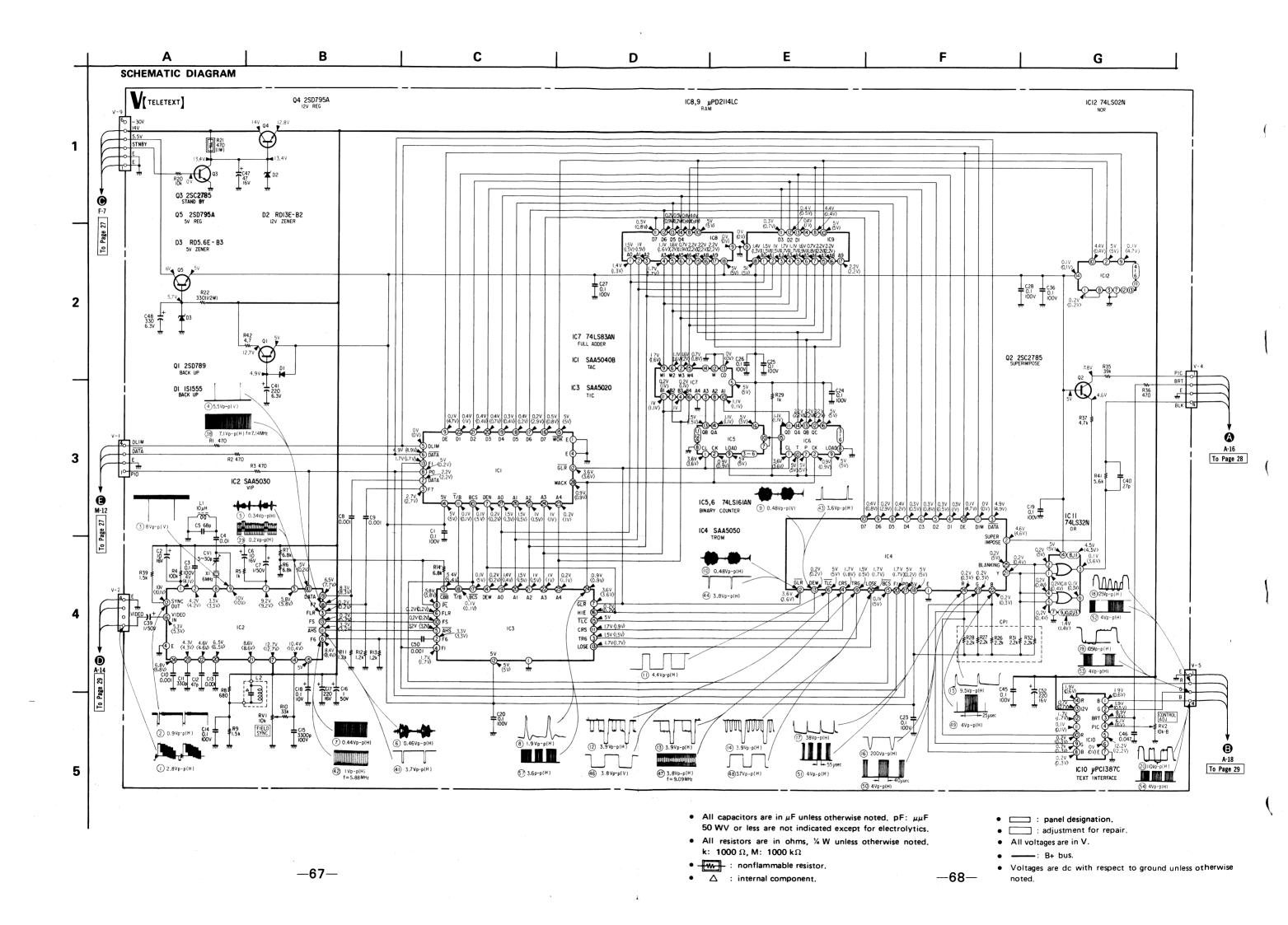
FIELD SYNC

- 1. Tune in an off-air signal.
- 2. Connect an dual-trace oscilloscope as shown.
- 3. Extend the vertical sync portion.
- 4. Adjust RV1 to obtain the waveform on the oscilloscope as shown below.



6-4. DIAGRAMS





PRINTED WIRING BOARD

- Conductor Side -Ε F C D В

SEMICONDUCTORS











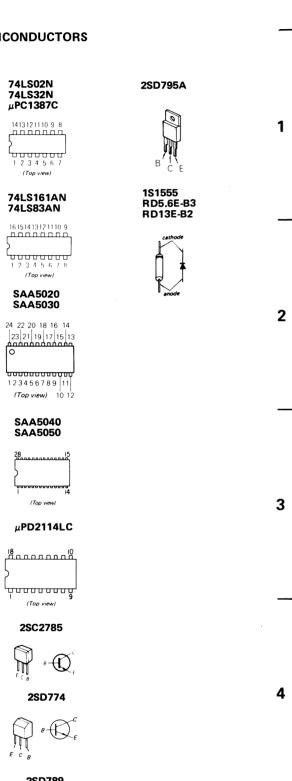


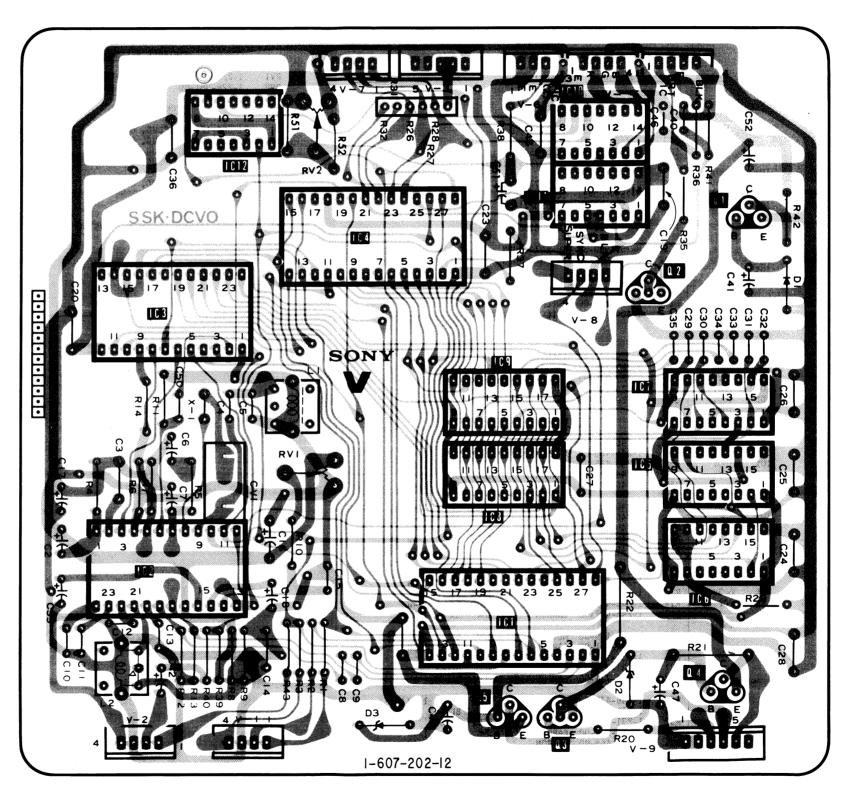




2SD789







		·
Q,IC	D	ADJ
ICI2 ICIO		RV2
ICII IC4 I		
IC3		
IC9 IC7		
IC8 IC5		RVI
IC6		
ICI	2	
5,3	3	
Q,IC	D	ADJ



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6-5. ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

 Items marked " • " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors CAPACITORS RESISTORS COILS have characteristic curve B, unless • MF : سF, PF : مال و All resistors are in ohms • MMH : мH, UH : سH otherwise noted•

Ref.No	o.Part No.	Description			Remark	Ref.N	o.Part No.	Description				Remark
٠	:A-1295-572-A	SUB, V BOARI	D, COMPLETE				<u>11</u>					
•	:4-353-518-00 <u>CAF</u>	HEAT SINK				IC1 IC2 IC3 IC4	8-759-950-40 3-759-950-30 8-759-950-20 8-759-950-50	IC SAA5050				
C1 C2 C3 C4 C5	1-108-389-00 1-123-356-00 1-108-389-00 1-102-129-00 1-102-651-00	ELECT MYLAR CERAMIC CERAMIC	0.1MF 10MF 0.1MF 0.01MF 68PF	10% 20% 10% 10% 5%	100V 16V 100V 50V 50V	IC5 IC6 IC7 IC8 IC9 IC10	8-759-901-61 8-759-900-83	IC SN74LS161. IC SN74LS161. IC SN74LS83A IC UPD2114LC IC UPD2114LC IC UPC1387C	AN			
C6 C7 C8 C9 C10	1-123-356-00 1-123-380-00 1-102-074-00 1-102-074-00 1-102-074-00	ELECT ELECT CERAMIC CERAMIC CERAMIC	10MF 1MF 0.001MF 0.001MF 0.001MF	20% 20% 10% 10% 10%	16V 50V 50V 50V 50V	 IC11 IC12	3-759-900-32 8-759-900-02	IC SN74LS32N IC SN74LS02N				
C11 C12 C13	1-102-773-00 1-101-984-00 1-102-074-00	CERAMIC CERAMIC CERAMIC	330PF 47PF 0.001MF	5% 5% 10%	50V 50V 50V	L1 L2	1-404-291-00 1-404-292-00					
C14 C15	1-102-374-00 1-103-389-00 1-129-794-00	MYLAR	0.1MF 0.0033MF	10%	100V 100V		TRA	NSISTOR				
C16 C17 C18 C19 C20	1-108-389-00 1-123-321-00 1-103-389-00 1-103-389-00 1-108-389-00	ELECT ELECT MYLAR MYLAR MYLAR	0.1MF 220MF 0.1MF 0.1MF 0.1MF	10% 20% 10% 10%	100V 16V 100V 100V 100V	Q1 Q2 Q3 Q4 Q5	3-729-177-43 8-729-245-83 8-729-245-83 8-729-109-53 8-729-109-53	TRANSISTOR 25 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 25 TRANSISTOR 25	SC2458 SC2458 SD795A			
C23	1 100 200 00	MVIAD	0.145	10%	100V		RES	ISTOR				
C24 C25 C26 C27	1-108-389-00 1-108-389-00 1-108-389-00 1-108-389-00 1-108-389-00	MYLAR MYLAR MYLAR	0.1MF 0.1MF 0.1MF 0.1MF 0.1MF	10% 10% 10% 10%	100V 100V 100V 100V	R1 R2 R3 R4 R5	1-246-465-00 1-246-465-00 1-246-465-00 1-246-521-00 1-246-473-00	CARBON CARBON CARBON CARBON CARBON	470 470 470 100K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C28 C36 C39 C4U C41	1-108-389-00 1-108-389-00 1-123-380-00 1-102-961-00 1-123-296-00	MYLAR ELECT CERAMIC	0.1MF 0.1MF 1MF 27PF 220MF	10% 10% 20% 5% 20%	100V 100V 50V 50V 6.3V	R6 R7 R8 R9 R10	1-246-493-00 1-246-493-00 1-246-469-00 1-246-477-00 1-246-509-00	CARBON CARBON CARBON CARBON CARBON	6.8K 6.8k 680 1.5K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
C45 C46 C47 C48 C50	1-108-389-00 1-101-006-00 1-123-332-00 1-123-297-00 1-102-074-00	MYLAR CERAMIC ELECT ELECT CERAMIC	0.1MF 0.047MF 47MF 330MF 0.001MF	10% 20% 20% 10%	100V 50V 16V 6.3V 50V	R11 R12 R13 R14 R20	1-246-475-00 1-246-475-00 1-246-475-00 1-246-493-00 1-246-497-00	CARBON CARBON CARBON CARBON CARBON	33K 1.2K 1.2K 1.2K 6.3K 10K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C 52	1-123-321-00	ELECT	220MF	20%	167							_
	TRI	MMER				R21 R22 R26	1-213-139-00 1-244-861-00 1-231-731-00	METAL CARBON COMPOSITION C	470 330 1 RCULT	5% 5% BLOCK	1W 1/2W	F
CV1	1-141-181-11	CAP, TRIMMER	R		į	R27 R28	1-231-731-00 1-231-731-00	COMPOSITION C	IRCUIT	BLOCK		
	<u>DIO</u>	<u>DE</u>			ļ	R29	1-246-473-00	CARBON	1K	5%	1/4W	
D1 D2 D3	8-719-911-19 8-719-100-68 8-719-100-36	DIODE RD13E-	-B2			R31 R32 R35	1-231-731-00 1-231-731-00 1-246-511-00	COMPOSITION C COMPOSITION C CARBON	IRCUIT IRCUIT 39K	BLOCK BLOCK 5%	1/4W	
						R36 R37	1-246-465-00 1-246-489-00	CARBON	470 4.7K	5% 5%	1/4W 1/4W	

Ref.No.Part No.	Description	Remark
R39 1-246-477-00 R41 1-246-491-00 R42 1-246-417-00	CARBON 5.6K 5% 1/4W	
VAR	TABLE RESISTOR	
	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K	
ÇON	NECTOR	
V2 • :1-560-124-00 V4 • :1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH) PLUG, CONNECTOR (2.5MM PITCH) PLUG, CONNECTOR (2.5MM PITCH) PLUG, CONNECTOR (2.5MM PITCH)	
V9 ♦:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	
CRY	STAL	
X1 1-527-734-00	VIBRATUR, CRYSTAL	

SERVICE MANUAL



August, 1983

SPECIFICATIONS

Remote control system

Infrared control

Power requirements

3 V dc

2 IEC designation R03 batteries (size AAA)

Dimensions Weight

Approx. $54 \times 165 \times 16 \text{ mm (w/h/d)}$ Approx. 100 g including batteries

Accessory supplied IEC designation R03 battery (2)



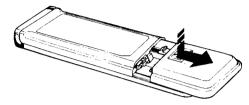
1. REMOTE CONTROL OPERATION

-with the supplied RM-635 Remote Commander

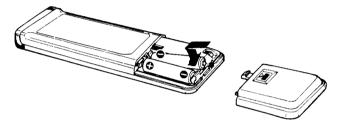
BATTERY INSTALLATION

The Sony RM-635 Remote Commander operates on two supplied IEC designation R03 batteries (size AAA).

Remove the battery compartment lid.



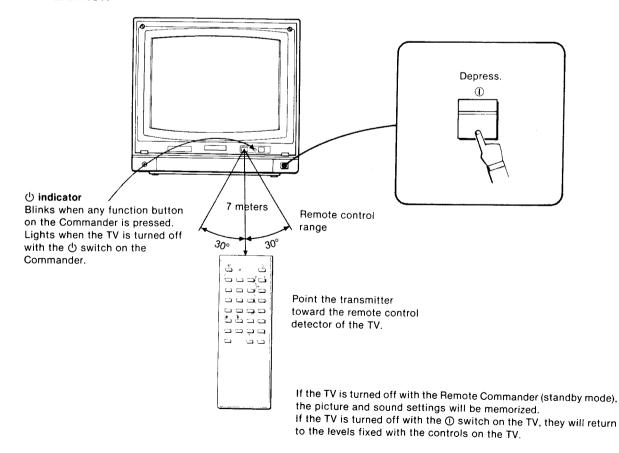
2 Insert batteries observing the correct polarity and close the lid.



NOTES ON THE REMOTE COMMANDER

- In normal use, battery life is up to half a year. When the batteries are exhausted, the Commander will not operate the TV properly. If this happens, replace both batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign object into the cabinet, particularly when replacing batteries.

REMOTE TV OPERATION



FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

Each button has different functions for normal TV, teletext and VTR operations.

Functions for operating the TV are indicated in WHITE.

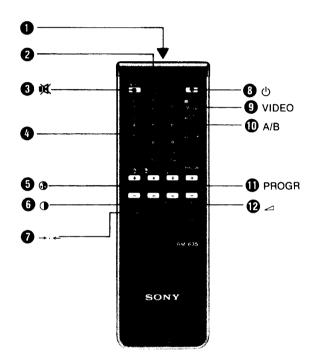
Functions for operating the video tape recorder* are indicated in orange.

Functions for teletext operation using the optional OPK-103 teletext adaptor* * are indicated in green.

- *This Remote Commander can control the Sony SL-F1E combined with the TT-F1 series tuner timer unit, and Sony SL-C9 series.
- * * A teletext adaptor is built into the KV-2056EC.

For details, please refer to the supplemental instruction manual furnished with the set.

Buttons used for normal TV operations



Transmitter

Point toward the remote control detector

Pilot lamp

Blinks when the Remote Commander is operating.

③ i⋈ (sound mute) button

When you want to mute the sound, (to answer the telephone, for instance) press this button. To restore the sound, press this button again.

Program number buttons

Programs are displayed by pressing the corresponding numbers. For programs 1 through 9, press the appropriate single-digit button. For programs 10 through 19, first press the 1- button (the tensdigit "/" will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking).

For example: for program 10, press 1- and 0. for program 11, press 1- and 1.

For programs 20 to 29, press the 2- button and then the single-digit button.

For program 30, press the 0 button.

Note: If you do not press a single-digit button within several seconds after pressing the 1-1 or 2-1 button, the previous program setting will be automatically recalled.

6 (color) buttons

Adjust the color intensity. Press the + button to increase it, or press the - button to decrease it.

(picture) buttons

Press the $\,+\,$ button to increase the picture contrast, or the $\,-\,$ button to decrease it.

→ · ← (normal) button

Pushing this button once instantly returns the color and contrast settings made with the 1 and 3 buttons on the Commander to the initial settings on the TV.

⊕ (standby) switch

Turns the TV in standby mode. The ⊕ indicator on the TV will light up. To turn on the TV from the standby mode, press a program number button or the → ← button on the Commander.

O VIDEO button

Functions the same as the TV/VIDEO select button on the TV.

A/B button

Functions the same as the ZWEITON button on the TV.

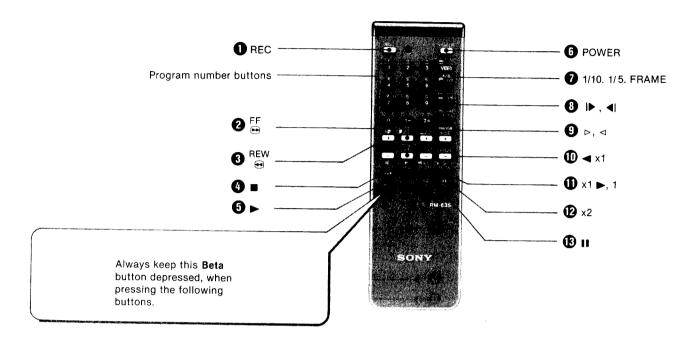
1 PROGR (program) buttons

Function the same as the PROGR select buttons on the TV.

② ∠ (volume) buttons

Press the + button to increase the volume, or press the - button to decrease it.

Buttons used for VTR operations



Buttons which have the same functions for both SL-C9 series and SL-F1E

• REC (record) button

Press to start recording.

forward picture-search operation.

€ REW (rewind) button

Press to rewind the tape. This button is also used for the reverse picture-search operation.

Press to stop the tape.

Press to play the tape back.

6 POWER switch

Press to turn the video tape recorder (and the tuner timer unit) on or

2 x2 (double-speed) button

Functions the same as the x2 button on the video tape recorder. Press to obtain a double-speed playback picture.

11 (pause) button

Functions the same as the II PAUSE button on the SL-C9 series and the PAUSE button on the SL-F1E. To release the pause mode, press this button again.

Buttons used for the SL-C9 series

9 Speed control buttons (1/10, 1/5, FRAME)

Function the same as the 1/10, 1/5 and FRAME of the SPEED CON-TROL buttons on the recorder.

Select the direction of the speed control playback, Function the same as the ⊳ and ⊲ buttons of SPEED CONTROL buttons on the recorder.

1 (normal speed) button

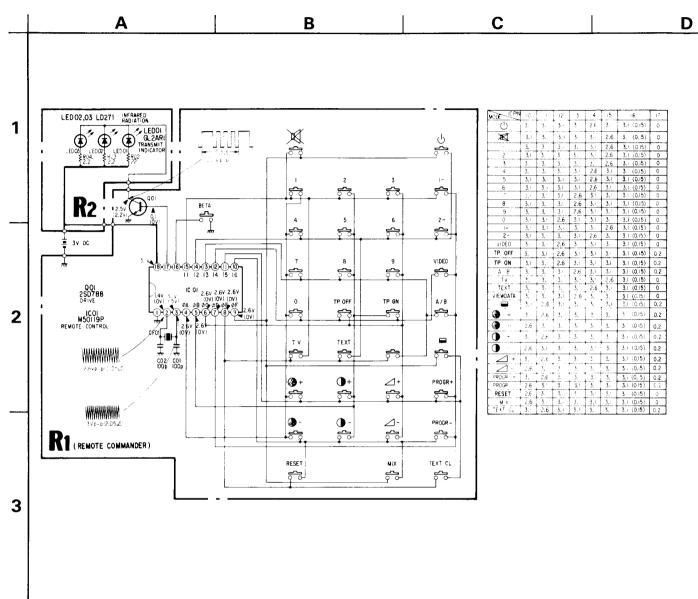
Functions the same as the 1 button of the SPEED CONTROL buttons on the recorder.

Buttons used for the SL-F1E

(forward slow motion) and ◀ (reverse slow motion) buttons Function the same as the I▶ and ◀I SWING SEARCH buttons on the SL-F1E.

Function the same as the \triangleleft and \triangleright SWING SEARCH buttons on the SL-F1E.

2. SCHEMATIC DIAGRAM



- All capacitors are in μF unless otherwise noted. pF: μμF
 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. k: 1000Ω , M: $1000k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages and waveform are for when A/B button is pressed.
- Voltages in () are taken with button not pressed.

—77—

5

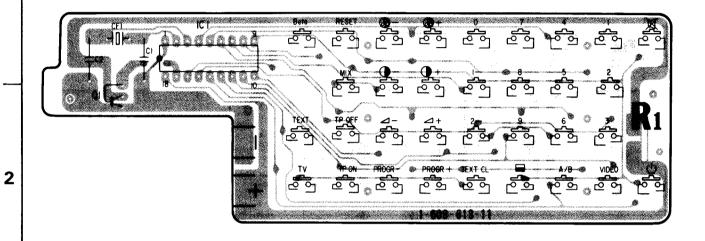
1

3. PRINTED WIRING BOARDS

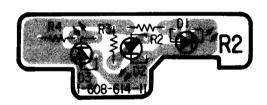
- Conductor Side -

A B C D

- R1 Board -



- R2 Board -



M50119P 2SC1474 2SD773 GL-2AR1 LD271 SE303A SE303AX SE303AX SE303AY

5

4

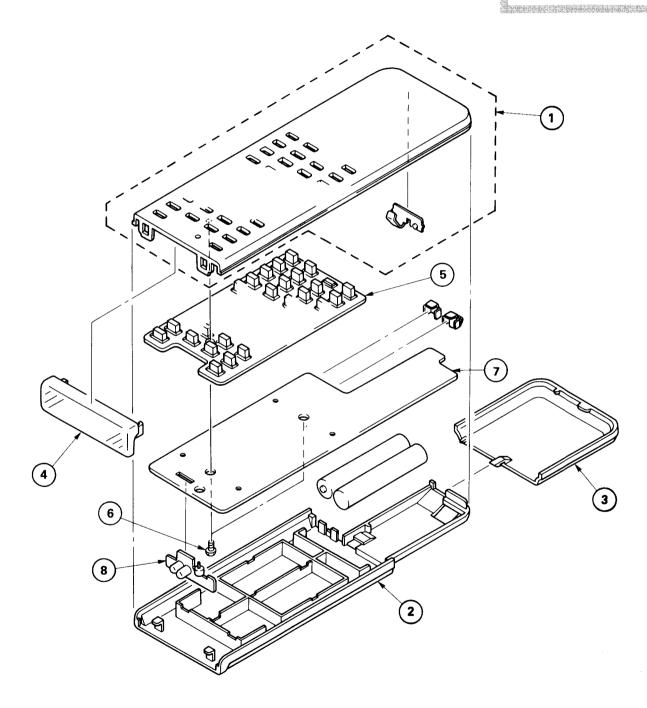
4. EXPLODED VIEW

- NOIL:

 Items with no part number and no description are not stocked because they are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
	4-361-948-00 4-361-945-00	CASE (UPPER) ASSY, COMMANDER CASE (LOWER), COMMANDER COVER, BATTERY PANEL, FRONT, COMMANDER					

5. ELECTRICAL PARTS LIST

The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless

CAPACITORS • MF : پا۴, PF : تربر

RESISTORS • All resistors are in ohms
• F : nonflammable

COILS • MMH : mH, UH : рН

otherwise noted.

Ref.No.Part No. Description Remark **♦**:1-608-613-00 R1 B0A RD 4-348-542-00 TERMINAL (A), BATTERY 4-348-543-00 TERMINAL (B), BATTERY

CAPACITOR

1-161-271-00 CERAMIC 1-161-271-00 CERAMIC C01 C02

100PF 500 100PF 50V

FILTER

CF01 1-527-476-00 OSCILLATOR, CERAMIC

ICO1 8-759-600-07 IC M50119P

TRANSISTOR

8-729-177-32 TRANSISTOR 2SD773

♦:1-608-614-00 R2 B0A RD

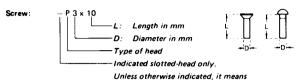
DIODE

LED01 8-719-900-23 DIODE GL2AR1 LED02 8-719-107-82 DIODE SE303AY LED03 8-719-107-82 DIODE SE303AY

RESISTOR

1-247-791-00 CARBON 1-247-767-00 CARBON 1-247-767-00 CARBON R02 1/6W 2.2 R03 1/6W R04

HARDWARE NOMENCLATURE



cross-recessed head (Phillips type).

Reference Designation	Shape	Description	Remarks
		SCREWS	
Р	€∋	pan-head screw	binding-head (B) screw for replacement
PWH	€13	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	9\$ 3-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	(%)	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€3	round-head screw	binding-head (B) screw for replacement
К	₽	flat-countersunk-head screw	
RK	€	oval-countersunk-head screw	
В	₽	binding-head screw	
Т	₽	truss-head screw	binding-head (B) screw for replacement
F	₽⊃	flat-fillister-head screw	
RF	€⊒•	fillister-head screw	
BV	€⊃	brazier-head screw	

3Diameter of usable screw or shafe

Reference Designation	Shape	Description	Remarks				
		SELF TAPPING SCRE	ws				
TA (DE)		self-tapping screw	ex: TA, P 3 x 10				
PTP E		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement				
PTPWH	+	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement				
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacemen				
		SET SCREWS					
sc	E3-	set screw					
SC	⊕ €∃-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket				
		NUT					
N	-()-()-()-()-()-()-()-()-()-()-()-()-()-	nut					
		WASHERS					
W	0	flat washer					
SW	- 4	spring washer					
LW	0	internal-tooth lock washer	ex: LW3, internal				
LW	0	external-tooth lock washer	ex: LW3, external				
		RETAINING RINGS					
E	0	retaining ring					
G	grip-type retaining ring						